

TITLE V READINGS

SHIFT TRI-MER / VIRON SCRUBBER READINGS

Week of: 6/1/2015

Week of:		6/1/2015				Viron PH		Tri-mer PH			Trimer Pressure Drop			Trimer Flow Rates			Check (X) Calciners					RC #1	RC #2	RC #3	RC #4	RC #5	
						Viron #2 Range (6-11)	Viron #3 Range (6-11)	Tank 1 Range (10-13)	Tank 2 Range (10-13)	Tank 3 Range (10-13)	Stage1 Range 0"-1.5"	Stage 2 Range 1"-4"	Stage 3 Range 3"-6"	Stage 1 Range 50 MIN	Stage 2 Range 50 MIN	Stage 3 Range 50 MIN	Routed to Trimer										Comments
		Shift	Oper	Time													1	2	3	4	5						
Monday	6/1/2015	Night	RS	11:15	NOP	10.33	10.37	11.06	11.05	1.7	2.11	3.04	111	104	93	X											
		Day	JKL	11AM	NOP	8.2	10.17	10.58	11.18	1.3	2.21	3.03	111	103	92	X											
		Afternoon	SHLL	8PM	NOP	9.1	10.7	11.2	11.3	1.5	1.8	3.02	111	103	93	X											
Tuesday	6/2/2015	Night	JKL	11PM	NOP	6.9	10.6	11.5	11.6	2	2.3	3.0	100	100	93	X											
		Day	JKL	8AM	NOP	7.7	10.24	10.56	10.87	1.4	2.26	3.07	111	104	92	X											
		Afternoon	SHLL	9PM	NOP	9.4	10.9	11.4	10.7	1.1	2.3	3.1	111	103	92	X											
Wednesday	6/3/2015	Night	GG	11PM	NOP	8.0	10.8	11.6	11.3	1.9	2.2	3.0	100	100	93	X											
		Day	GG	11AM	NOP	10.2	10.9	10.6	10.0	1.2	1.9	3.8	109	104	93	X											
		Afternoon	SHLL	9PM	8.4	9.2	10.7	11.5	11.4	1.2	1.8	3.2	111	104	93	X											
Thursday	6/4/2015	Night	GG	11PM	8.2	10.0	10.6	10.7	10.59	1.2	2.55	3.28	110	103	93	X											
		Day	DA	8:30	8.1	7.8	10.6	10.9	11.5	1.89	2.30	3.13	111	103	93	X											
		Afternoon	JKL	5PM	NOP	8.1	10.83	11.68	10.95	1.07	2.27	3.06	111	103	97	X											
Friday	6/5/2015	Night	DA	4A	8.1	8.6	10.7	10.8	10.6	1.01	2.14	3.29	111	104	93	X											
		Day	DA	2P	8.2	11.0	10.4	11.5	11.0	1.02	1.99	3.97	111	103	93	X											
		Afternoon	JKL	7PM	10.8	10.8	10.5	11.5	11.48	1.81	2.04	3	111	103	93	X											
Saturday	6/6/2015	Night	SHLL	2:00AM	8.0	8.1	10.8	11.1	11.4	1.09	2.5	3	111	104	93	X											
		Day	DA	2PM	8.1	9.4	10.6	10.9	10.8	1.2	2.3	3.02	111	103	93	X											
		Afternoon	JKL	8PM	9.3	8.1	10.59	10.81	10.85	1.3	1.96	3.08	111	104	93	X											
Sunday	6/7/2015	Night	SHLL	3AM	8.0	8.2	10.6	11.4	10.7	1.3	1.6	3.2	111	104	93	X											
		Day	DA	12P	8.1	11.9	10.0	11.3	10.9	1.6	1.2	3.08	110	103	93	X											
		Afternoon	JKL	8PM	8.0	8.3	10.2	11.68	10.78	1.81	3.6	3.15	110	103	93	X											

*** Any condition outside of the prescribed parameters needs to be reported via voice mail to Ext. 2568 with an email followup to Tim Anglin, Group Leaders, and Superintendents ASAP ***
 All Equipment operation outside of parameters must be repaired as soon as possible
 Mark section NOP if equipment is Not Operating

TITLE V READINGS

P010

P102

P103

P009

P080

[illegible]

TITLE V READINGS

SOUTH SIDE DAILY TITLE V READING Bldg. 9 & 27

Week of: 6/1/2015

			PK Blender (P099) Building 9				Home Tableting (P096) Building 27 Roof	Gravity Bed Sep. (P105) Building 27		Action Taken		
			Baghouse Pressure Drop 3"-5" H2O	Scrubber Pressure Drop >= 2" H2O	Scrubber Water Flow Y/N	Visible Stack Emissions Y/N	Visible Stack Emissions Y/N	Baghouse DP 1"-4" H2O	Visible Stack Emissions Y/N			
	Oper	Time										
Monday	FS	11:05	NOP	NOP	NOP	NOP	N	NOP	NOP			
Tuesday	GG	11:00	NOP	NOP	NOP	NOP	N	NOP	NOP			
Wednesday	GG	11:00	NOP	+2.35	Y	N	N	NOP	NOP			
Thursday	GG	11:00	NOP	+2.23	Y	N	N	NOP	NOP			
Friday	DA	3A	NOP	+2.26	Y	N	N	NOP	NOP			
Saturday	SHILL	2:00AM	NOP	+2.25	YES	NO	NO	NOP	NOP			
Sunday	SHILL	3:00AM	4.9	2.3	YES	NO	NO	NOP	NOP			

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TITLE V READINGS

SOUTH SIDE DAILY TITLE V READING BLDG. 31

Week of: 6/1/2015

			F2 Scrubber (P024 & P026)	F1 Scrubber (P010 & P028)	Tri-mer Stack (P010 - P026 - P080)	Roof Dust Collectors (P026 - P028 - P110)	Action Taken
			Bldg 31 Roof Visible Emissions Y/N	Bldg 31 Roof Visible Emissions Y/N	Bldg 31 Roof Visible Emissions Y/N	Bldg 31 Roof Visible Emissions Y/N	
	Oper	Time					
Monday	RS	11:05	N	N	N	N	
Tuesday	GG	11:00	N	N	N	N	
Wednesday	GG	11:00	N	N	N	N	
Thursday	GG	11pm	N	N	N - light out	N	
Friday	DA	3A	N	N	N	N	
Saturday	SHILL	2:00AM	NO	NO	NO	NO	
Sunday	SHILL	3:00AM	NO	NO	NO	NO	

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TITLE V READINGS

SOUTH SIDE DAILY TITLE V READING BLDG.16

Week of: 6/1/2015

	Oper	Time	RC #4 (P009) Building 16		Viron #2 (P086) Building 16		Viron #3 (P086) Building 16		National Dryer (P106) Building 16		CTO Stack (P102 & P103)	RC # 5 (P080)
			Baghouse 4A - DP	Baghouse 4B - DP	Scrubber DP	Scrubber Water Flow	Scrubber DP	Scrubber Water Flow	Visible Stack	Baghouse DP	Visible Stack	Visible Stack
			0.3"-4.5" H2O	0.3"-4.5" H2O	>1" H2O	> 2 GPM	>1" H2O	> 2 GPM	Emmisions	1"-4" H2O	Emmisions	Emmisions
									Y/N		Y/N	Y/N
Monday	RS	11:15	1.43	3.05	NOP	NOP	6.5	2	N	1.46	N	N
Tuesday	GG	11:00	1.67	3.10	NOP	NOP	5.0	2	N	1.47	N	N
Wednesday	GG	11:00	1.02	2.84	NOP	NOP	4.1	2	N	1.48	N	N
Thursday	GG	11:00	1.04	3.08	2.6	2	3.0	2	N	1.5	N	N
Friday	DA	4 A	1.06	2.96	3.0	2	3.5	2	N	1.47	N	N
Saturday	SHILL	2:00AM	.8	2.2	2.8	2	4.3	2	NO	1.5	NO	NO
Sunday	SHILL	3:00AM	.8	2.2	2.7	2	3.5	2	NO	1.5	NO	NO

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Ammonia Scrubber Readings P070

Week of 6-8-2015

Day	Operator	Time	Equipment Operating y/n	Recycle Flow Rate: >25gpm	Scrubber Pressure Drop: >1"	Operating within parameters y/n	ACTIONS TAKEN:
Monday 6-8	CC	6:55AM	Y	34.04	1.79	Y	
Tuesday	CC	6:43AM	Y	34.82	2.07	Y	
Wednesday	SS	7:15	Y	34.83	1.52	Y	
Thursday	SS	8:15	Y	34.75	1.48	Y	
Friday	SS	7:30	Y	34.84	1.43	Y	
Saturday	DS	7AM	N	34.72	1.45	Y	
Sunday	DS	7AM	N	34.88	1.43	Y	

Nitric Acid Scrubber Readings P070

Day	Operator	Time	Equipment Operating y/n	Recycle Flow Rate: >25gpm	Scrubber Pressure Drop: >1"	Operating within parameters y/n	ACTIONS TAKEN:
Monday	CC	6:55AM	Y	27.4	10.2	Y	
Tuesday	CC	6:43AM	Y	26.7	10.3	Y	
Wednesday	SS	7:15	Y	26.9	10.3	Y	
Thursday	SS	8:15	Y	26.9	10.3	Y	
Friday	SS	7:30	Y	27	10.3	Y	
Saturday	DS	7AM	N	26.4	10.3	Y	
Sunday	DS	7AM	N	26.3	10.3	Y	

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North Side Daily Title V Readings Bldgs. 13, 25, 26

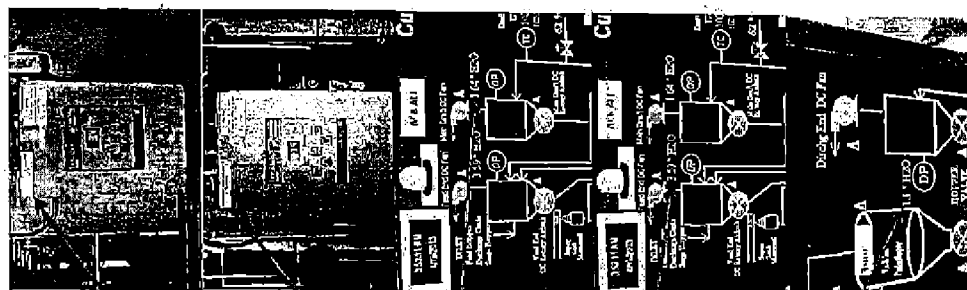
Week of June 8 2015

Day	Operator	Time	Building 13 Tabletting and Briquettor	Building 25 Clean Room	Misc. Mix room equipment	Action Taken
			P127	P098	P050, P051	
			Building 13 Roof	West Side Bldg. 25	West Side Bldg. 26	
			Visible Emissions	Visible Emissions	Visible Emissions	
			Y/N	Y/N	Y/N	
Monday	<i>[Signature]</i>	7	NO	NO	NO	
Tuesday	<i>[Signature]</i>	8	NO	NO	NO	
Wednesday	<i>[Signature]</i>	7	NO	NO	NO	
Thursday	<i>[Signature]</i>	8	NO	NO	NO	
Friday	DRS	6PM	NO	NO	NO	
Saturday	DL	7AM	NO	NO	NO	
Sunday	DL	7AM	N	N	N	

NOP = Not Operating

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Calcliner Baghouse Readings

 Week of June 8
2015


Day	Operator	Time	Equipment Operating Y/N	Baghouse RC #1 Draft Pressure Drop: 1-5 inches H ₂ O	Baghouse RC #1 Feed H. Pressure Drop: 1-5 inches H ₂ O	Baghouse RC #2 Draft Pressure Drop: 1-6 inches H ₂ O	Baghouse RC #2 Feed H. Pressure Drop: 1-6 inches H ₂ O	Baghouse RC #2 Discharge. Pressure Drop: 1-6 inches H ₂ O	Are all baghouses operating within parameters Y/N	ACTIONS TAKEN:
Monday	Butt	7	YES	1.3	2.2	1.21	1.96	3.6	YES	
Tuesday	Butt	8	YES	2.2	2.1	1.36	3.15	3.7	YES	
Wednesday	Butt	7	YES	1.3	2.6	1.06	2.46	3.7	YES	
Thursday	Butt	8	YES	1.9	1.0	1.84	2.71	3.7	YES	
Friday	Dea	7	YES	N/O	N/O	1.63	1.27	3.4	YES	
Saturday	DC	7	Y	1.6	1.8	1.82	1.59	3.5	Y	
Sunday	Dr	7	N	2.6	2.2	2.24	1.55	3.5	Y	

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North Side Daily Title V Readings Building 10

Week of JUNE 8, 2015

Day	Operator	Time	Tunnel Kiln 2	Tunnel Kiln 3	Tunnel Kiln 4	Blender #4	East & West Mills	PK Blender	Spin Flash Dryer	Action Taken
			Building 10C Roof P100	Building 10C Roof P101	Building 10C Roof P005	East Side Building 10A P031	East Side Building 10A P031	Building 10 Roof P068	Building 10 Roof P084	
			Visible Emissions Y/N	Visible Emissions Y/N	Visible Emissions Y/N	Visible Emissions Y/N	Visible Emissions Y/N	Visible Emissions Y/N	Visible Emissions Y/N	
Monday	KWP	9:40	N	N	N	N	N	N	N	
Tuesday	KWP	10:10	N	N	N	N	N	N	N	
Wednesday	KWP	12:00	N	N	N	N	N	N	N	
Thursday	KWP	8:30	N	N	N	N	N	N	N	
Friday	DN	8:00 AM	N	N	N	N	N	N	N	
Saturday	TA	5:00 PM	N	N	N	N	N	N	N	
Sunday	DN	NOON	N	N	N	N	N	N	N	

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Wyssmont Drier Baghouse Readings

P018

Week of 6-8-15

Day	Operator	Time	Equipment in Operation y/n	Baghouse Pressure Drop: 1-6 inches H ₂ O	Operating within parameters y/n	ACTIONS TAKEN:
Monday						
Tuesday						
Wednesday						
Thursday						
Friday						
Saturday						
Sunday						

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Did NOT Run. No orders to fix

BASF Elyria
Battery Materials - TITLE V FILTER PRESSURE DIFFERENTIAL READINGS

Month: <u>June</u>		Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
Year: <u>2015</u>		Date: <u>9</u>	Date: <u>10</u>	Date: <u>11</u>	Date: <u>12</u>	Date: <u>13</u>	Date: <u>14</u>	Date: <u>15</u>
		Time:	Time:	Time:	Time:	Time:	Time:	Time:

Equipment P&ID Number and Task	Operating Range (mbar)	Action Limit (mbar)	Differential Pressure Reading (mbar)						
F11910: Check DP on PDI11119140 *	0.1 - 49.8	40.0	SNR	SNR	SNR	SNR	SNR	SNR	SNR
F11920: Check DP on PDI11119241 *	0.1 - 60.0	50.0							
F21050: Check DP on PDI11210540 *	0.1 - 49.8	40.0							
F21535: Check DP on PDI11215341	0.1 - 42.3	32.0							
F23010: Check DP on PDI11230140 *	0.1 - 20.0	15.0							
F23070: Check DP on PDI11230740 *	0.1 - 10.0	7.0							
F31020: Check DP on PDI11310240 *	0.1 - 49.8	40.0							
F31030: Check DP on PDI11310340 *	0.1 - 60.0	50.0							
F32015: Check DP on PDI11320141	0.1 - 42.3	32.0							
F61030: Check DP on PDI11610340	0.1 - 25.0	20.0							
F61090: Check DP on PDI11610940	0.1 - 40.0	30.0							
F67350: Check DP on PDT11673540	0.1 - 49.8	40.0							
F67353: Check DP on PDT11673541	0.1 - 60.0	50.0							
F69040: Check DP on PDI11690440	0.1 - 25.0	20.0							
F69045: Check DP on PDI11690441	0.1 - 40.0	30.0							
F70025: Check DP on PDI11700249	0.1 - 42.3	32.0							
F71030: Check DP on PDI11710340 *	0.1 - 20.0	15.0							
F71040: Check DP on PDI11710440 *	0.1 - 10.0	7.0							
F41020: Check DP on PDI11410240 *	0.1 - 25.0	20.0							
F92010: Check DP on PDI11920140 *	0.1 - 25.0	20.0							
F92020: Check DP on PDI11920141 *	0.1 - 40.0	30.0							

* Does not continuously run - demand based on system need

"SNR" = System Not Running at time of Delta-P inspection.

Operator Signature:		RU	RU	RU	RU	RU	RU	RU
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Month: <u>June</u>	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
Year: <u>2015</u>	Date: <u>8</u>	Date: <u>9</u>	Date: <u>10</u>	Date: <u>11</u>	Date: <u>12</u>	Date: <u>13</u>	Date: <u>14</u>
	Time:	Time:	Time:	Time:	Time:	Time:	Time:
<u>Equipment P&ID</u>	<u>Notes/Observations/Maintenance</u>						
<u>Number and Task</u>							
CV61211-8: Unfired Sagger Stock Conveyor - Check chain for smooth action & irregularities	SNR	SNR	SNR	SNR	SNR	SNR	SNR
CV61211-8: Inspect below rollers for sagger wear particles (section between Filler and Slitter)							
SP61310: Make sure Slitter Knives are making adequate slits and smooth action.							
K64010: Visually inspect empty saggars for fine surface cracks and spalling.							
Littleford Mixer (2nd floor), Check purge air on Meko Shaft Seals is set at Drive & Stub = 10 psi							
Littleford Mixer (2nd floor), Check for material leaks.							
Empty Sagger Discharge Conveyor; 2nd floor; Check Vesibule for discharge sagger. Inspect and note							

Full Sagger Discharge Conveyor (2nd floor); Check Vestibule for discharged sagger.									
Dosing (3rd floor): Lithium and Precursor Dosing for leaks and seal wear/fatigue.									
G70010 (4th floor): Crusher Inspect belts for wear & checking.									
BL 69050 on DCF69040 94th floor): Check belts for wear and noise.									
Inside Sagger Cleaning; (4th floor) Check cleaning process for smooth action and normal timing. 3 to 4 sec per motion.									
Did you find any leaks on equipment, hoppers, conveyors or filters during your walk about?									
If yes: Note what appartus it is, what you did to mitigated the issue, and notify Rob Coffman (Bob Urig as back).									
Operator Initials:	RU	RU	RU	RU	RU	RU	RU	RU	RU

Month: <u>June</u>	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
Year: <u>2015</u>	Date: <u>8</u>	Date: <u>9</u>	Date: <u>10</u>	Date: <u>11</u>	Date: <u>12</u>	Date: <u>13</u>	Date: <u>14</u>
	Time:	Time:	Time:	Time:	Time:	Time:	Time:

Equipment P&ID Number and Task	Notes/Observations/Maintenance						
Sagger Filling/Leveling SP61120/SP61130: Clean Sensors and Clean Reflectors.	SNR	SNR	SNR	SNR	SNR	SNR	SNR
Sagger Filling / Leveling SP61120/SP61130: Check that rollers are turning in sagger Filling & Leveling							
Sagger Filling / Leveling SP61120/SP61130: Check cylinders for smoothness of stroke on units.							
Sagger Leveling SP61130: Visually inspect that saggars are being leveled.							
Sagger Filling SP61120: Ensure filling station is clear of excessive spillage.							
SF61112: Make sure there is air flow to the seal and seal is not leaking raw mix.							
D6980: Make sure seal doesn't fall off and empty drum as needed.							

Entrance Traverser Transfer SP61510: Ensure Traverser Conveyor is conveying properly.									
Bottom Sagger Inspection: SP67220: (2nd floor) Check action and cleanliness of Laser Pad									
H77070 Hopper (3rd floor): Ensure agitator is turning. Look for oil leaks and product leaks									
Inside Sagger Vacuumax Vacuum: ensure BL/M 67355 is running & F67350 has 1.29 nbar of vacuum.									
F67350 Drop Drum: Empty contents into clean labeled NCM Rework drum..									

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If yes: Note what appartus it is, what you did to mitigated the issue, and notify Rob Coffman (Bob Urig as back).									
Operator Initials:	RU	RU	RU	RU	RU	RU	RU	RU	RU

Month: <u>JUNE</u>	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
Year: <u>2015</u>	Date: <u>8</u>	Date: <u>9</u>	Date: <u>10</u>	Date: <u>11</u>	Date: <u>12</u>	Date: <u>13</u>	Date: <u>14</u>
	Time:	Time:	Time:	Time:	Time:	Time:	Time:

Equipment P&ID Number and Task	Notes/Observations/Maintenance						
Exit Traverser SP67020(1st Floor): Ensure Traverser is working properly	SNR	SNR	SNR	SNR	SNR	SNR	SNR
Entrance Traverser Transfer SP61510: Ensure Traverser Conveyor and Positioner is operating properly.							
Sagger Dumper SP67320 (4th Floor): Ensure dumper returns sagger to level position.							
Vacuamax Vacuum F92010 (1st floor): Check & Replace drop drum as needed.							
X23021: Check that the agitator is turning on Milled Lithium Carb. Hopper on 3rd Floor Mez							
FI11215411: Check purge air for screw feeder flow reading on Krohne meter (3rd floor behind H21530)							
D22040: Check Reject Drop Drum (2nd floor) Lithium Mill. Note level.							

CV70040: Check rubber boots for wear (2nd floor Mezzanine Vibrating Conveyor)							
D71080: Product Mill drop drum (2nd floor behind product mill)							
CV70040: Verify that the motors are operating properly (2nd floor mezzanine vibrating conveyor)							
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Operator Initials:	RU	RU	RU	RU	RU	RU	RU

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SHIFT TRI-MER / VIRON SCRUBBER READINGS

Week of: 6/8/2015

				Viron PH		Tri-mer PH			Trimer Pressure Drop			Trimer Flow Rates			Check (X) Calciners Routed to Trimer					RC #1	RC #2	RC #3	RC #4	RC #5
				Viron #2 Range (6-11)	Viron #3 Range (6-11)	Tank 1 Range (10-13)	Tank 2 Range (10-13)	Tank 3 Range (10-13)	Stage1 Range 0"-1.5"	Stage 2 Range 1"-4"	Stage 3 Range 3"-6"	Stage 1 Range 50 MIN	Stage 2 Range 50 MIN	Stage 3 Range 50 MIN	1	2	3	4	5	Comments				
	Shift	Oper	Time																					
Monday 6/8/2015	Midnight/5	SHILL	3:00AM	8.3	7.6	10.2	11.8	11.2	.9	3.3	3.2	111	103	93	X									
	7-3	SH	9:00AM	NOP	7.8	10.6	11.2	11.7	1.0	3.2	3.3	100	100	93	X									
	Afternoon	SH	2:00PM	7.7	8.1	10.28	11.31	11.78	.97	3.09	3.28	110	103	93	X									
Tuesday 6/9/2015	NIGHTS	SHILL	3:00AM	8.3	7.0	10.6	11.1	11.6	.75	2.7	3.3	110	103	93	X									
	7-3	SH	8:00AM	NOP	7.5	10.9	11.1	11.6	.7	2.5	3.2	100	100	93	X									
	Afternoon	SH	7:00PM	6	6.6	10.37	11.64	11.5	.47	2.63	2.09	110	103	92	X									
Wednesday 6/10/2015	NIGHTS	SHILL	3:00AM	NOP	NOP	10.9	11.2	11.6	.4	2.6	3.1	111	104	93	X									
	7-3	SH	9:00AM	NOP	NOP	10.8	11.1	11.6	.27	2.4	3.02	109	103	92	X									
	Afternoon	SH	8:00PM	NOP	NOP	10.79	11.68	11.63	.76	2.76	3.07	110	104	92	X									
Thursday 6/11/2015	NIGHTS	SHILL	3:00AM	8.0	9.6	10.9	11.7	11.7	.6	2.4	3.01	110	104	92	X									
	7-3	Sams	8:00AM	8.4	8.2	10.34	11.36	11.62	.54	2.87	3.15	110	103	92	X									
	7-11	Sams	6:00PM	7.6	7.7	10.98	11.97	11.10	.57	2.06	3.18	109	103	92			X							
Friday 6/12/2015	NIGHTS	SHILL	12:00AM	8.4	7.7	10.3	11.4	11.2	.7	2.3	3.0	109	103	92			X							
	7-3	SAMS	11:00AM	8.4	6.8	10.5	12.1	11.3	.46	1.7	3.08	109	104	92			X							
	7-11	Bir	9:00PM	8	8.2	10.7	11.6	11.5	.6	1.8	3	109	104	93			X							
Saturday 6/13/2015	Midnight/5	SH	5:00AM	8.3	10.3	10.39	11.45	10.63	.7	2.19	3.07	111	104	93			X							
	7-3	Sams	9:00AM	7.6	8.1	10.4	11.6	10.7	.6	2.21	3.11	109	104	93			X							
	7-11	SH	7:30PM	8.3	10.6	10.4	11.1	10.0	.2	2.0	3.0	100	100	93			X							
Sunday 6/14/2015	7-11	SH	12:00PM	8.3	7.6	10.48	11.46	10.92	.04	1.66	3.12	110	104	93			X							
	7-3	SAMS	9:00AM	7.6	8.1	10.6	11.2	11.6	.02	2.08	3.11	110	104	93			X							
	7-11	SH	10:00PM	7.4	8.2	10.7	11.4	11.0	.38	1.3	3.1	100	100	93			X							

*** Any condition outside of the prescribed parameters needs to be reported via voice mail to Ext. 2568 with an email followup to Tim Anglin, Group Leaders, and Superintendents ASAP ***

All Equipment operation outside of parameters must be repaired as soon as possible

Mark section NOP if equipment is Not Operating

TITLE V READINGS

SOUTH SIDE DAILY TITLE V READING BLDG.16

Week of: 6/8/2015

	Oper	Time	RC #4 (P009) Building 16		Viron #2 (P086) Building 16		Viron #3 (P086) Building 16		National Dryer (P106) Building 16		CTO Stack (P102 & P103)	RC # 5 (P080)
			Baghouse 4A - DP 0.3"-4.5" H2O	Baghouse 4B - DP 0.3"-4.5" H2O	Scrubber DP >1" H2O	Scrubber Water Flow > 2 GPM	Scrubber DP >1" H2O	Scrubber Water Flow > 2 GPM	Visable Stack Emmisions	Baghouse DP 1"-4" H2O	Visable Stack Emmisions	Visable Stack Emmisions
									Y/N		Y/N	Y/N
Monday	SHILL	3:00AM	.8	2.2	3.1	2	2.9	2	NO	1.7	NO	NO
Tuesday	SHILL	3:00AM	.8	2.4	1.6	2	2.8	2	NO	1.7	NO	NO
Wednesday	SHILL	3:00AM	.8	2.2	NOP	NOP	NOP	NOP	NO	1.1	NO	NO
Thursday	SHILL	3:00AM	.8	2.4	2.7	2	3.6	2	NO	1.1	NO	NO
Friday	SHILL	12:00AM	.8	2.4	3.3	2	4.6	2	NO	NOP	NO	NO
Saturday	Joe	5AM	.9	2.2	3.4	2	6.6	2	NO	1.49	NOP	NOP
Sunday	Joe	12AM	1.2	2.4	3.2	2	3.2	2	NOP	NOP	NOP	NOP

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 Ext. 2568 with an email followup to Tim Anglin, Group Leaders, and Superintendents ASAP ***
 All Equipment operation outside of parameters must be repaired as soon as possible
 Mark section NOP if equipment is Not Operating

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TITLE V READINGS

SOUTH SIDE DAILY TITLE V READING BLDG. 31

Week of: 6/8/2015

			F2 Scrubber (P024 & P026)	F1 Scrubber (P010 & P028)	Tri-mer Stack (P010 - P026 - P080)	Roof Dust Collectors (P026 - P028 - P110)	Action Taken
			Bldg 31 Roof Visible Emissions Y/N	Bldg 31 Roof Visible Emissions Y/N	Bldg 31 Roof Visible Emissions Y/N	Bldg 31 Roof Visible Emissions Y/N	
	Oper	Time					
Monday	SHILL	3:00AM	NO	NO	NO	NO	
Tuesday	SHILL	3:00AM	NO	NO	NO	NO	
Wednesday	SHILL	3:00AM	NO	NO	NO	NO	
Thursday	SHILL	3:00AM	NO	NO	NO	NO	
Friday	SHILL	12:00AM	NO	NO	NO	NO	
Saturday	Joe	5PM	NO	NO	NO	NO	
Sunday	Joe	12PM	NO	NO	NO	NO	

Any condition outside of the prescribed parameters needs to be reported via voice mail to Ext. 2568 with an email followup to Tim Anglin, Group Leaders, and Superintendents ASAP ***
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TITLE V READINGS

SOUTH SIDE DAILY TITLE V READING Bldg. 9 & 27

Week of: 6/8/2015

			PK Blender (P099) Building 9				Horne Tableting (P096) Building 27 Roof	Gravity Bed Sep. (P105) Building 27		Action Taken		
			Baghouse Pressure Drop 3"-5" H2O	Scrubber Pressure Drop ≥ 2" H2O	Scrubber Water Flow Y/N	Visible Stack Emissions Y/N	Visible Stack Emissions Y/N	Baghouse DP 1"-4" H2O	Visible Stack Emissions Y/N			
	Oper	Time										
Monday	SHILL	3:00AM	NOP	2.2	YES	NO	NO	NOP	NOP			
Tuesday	SHILL	3:00AM	3.1	2.2	YES	NO	NO	NOP	NOP			
Wednesday	SHILL	3:00AM	3.9	2.3	YES	NO	NO	NOP	NOP			
Thursday	SHILL	3:00AM	NOP	NOP	NO	NO	NO	NOP	NOP			
Friday	SHILL	12:00AM	4.5	2.3	YES	NO	NO	NOP	NOP			
Saturday	OK	5PM	4.33	2.29	YES	NO	NO	NOP	NOP			
Sunday	OK	12PM	4.46	2.33	YES	NO	NO	NOP	NOP			

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Ext. 2568 with an email followup to Tim Anglin, Group Leaders, and Superintendents ASAP ***
All Equipment operation outside of parameters must be repaired as soon as possible
Mark section NOP if equipment is Not Operating

BASF Elyria
Battery Materials - TITLE V FILTER PRESSURE DIFFERENTIAL READINGS

Month: <u>June</u>		Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
Year: <u>2015</u>		Date: <u>1</u>	Date: <u>2</u>	Date: <u>3</u>	Date: <u>4</u>	Date: <u>5</u>	Date: <u>6</u>	Date: <u>7</u>
		Time:	Time:	Time:	Time:	Time:	Time:	Time:

Equipment P&ID Number and Task	Operating Range (mbar)	Action Limit (mbar)	Differential Pressure Reading (mbar)						
F11910: Check DP on PDI11119140 *	0.1 - 49.8	40.0	SNR	SNR	SNR	SNR	SNR	SNR	SNR
F11920: Check DP on PDI11119241 *	0.1 - 60.0	50.0							
F21050: Check DP on PDI11210540 *	0.1 - 49.8	40.0							
F21535: Check DP on PDI11215341	0.1 - 42.3	32.0							
F23010: Check DP on PDI11230140 *	0.1 - 20.0	15.0							
F23070: Check DP on PDI11230740 *	0.1 - 10.0	7.0							
F31020: Check DP on PDI11310240 *	0.1 - 49.8	40.0							
F31030: Check DP on PDI11310340 *	0.1 - 60.0	50.0							
F32015: Check DP on PDI11320141	0.1 - 42.3	32.0							
F61030: Check DP on PDI11610340	0.1 - 25.0	20.0							
F61090: Check DP on PDI11610940	0.1 - 40.0	30.0							
F67350: Check DP on PDT11673540	0.1 - 49.8	40.0							
F67353: Check DP on PDT11673541	0.1 - 60.0	50.0							
F69040: Check DP on PDI11690440	0.1 - 25.0	20.0							
F69045: Check DP on PDI11690441	0.1 - 40.0	30.0							
F70025: Check DP on PDI11700249	0.1 - 42.3	32.0							
F71030: Check DP on PDI11710340 *	0.1 - 20.0	15.0							
F71040: Check DP on PDI11710440 *	0.1 - 10.0	7.0							
F41020: Check DP on PDI11410240 *	0.1 - 25.0	20.0							
F92010: Check DP on PDI11920140 *	0.1 - 25.0	20.0							
F92020: Check DP on PDI11920141 *	0.1 - 40.0	30.0							

* Does not continuously run - demand based on system need

"SNR" = System Not Running at time of Delta-P inspection.

Operator Signature:		Ru	Ru	Ru	Ru	Ru	Ru	Ru
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Month: <u>June</u>	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
Year: <u>2015</u>	Date: <u>1</u>	Date: <u>2</u>	Date: <u>3</u>	Date: <u>4</u>	Date: <u>5</u>	Date: <u>6</u>	Date: <u>7</u>
	Time:	Time:	Time:	Time:	Time:	Time:	Time:
Equipment P&ID Number and Task	Notes/Observations/Maintenance						
V61211-8: Unfired agger Stock conveyor - Check chain for smooth action & irregularities	SNR	SNR	SNR	SNR	SNR	SNR	SNR
V61211-8: Inspect slow rollers for agger wear articles (section between Filler and lifter)							
P61310: Make sure lifter Knives are making adequate slits and smooth action.							
G64010: Visually inspect empty aggers for fine surface cracks and palling.							
Littleford Mixer (2nd floor), Check purge air on Meko Shaft Seals is set at Drive & Stub = 10 psi							
Littleford Mixer (2nd floor), Check for material leaks.							
Empty Sagger Discharge Conveyor; 2nd floor; Check vestibule for discharge sagger. Inspect and note							

Full Sagger Discharge Conveyor (2nd floor); Check Vestibule for discharged sagger.													
Dosing (3rd floor): Lithium and Precursor Dosing for leaks and seal wear/fatigue.													
G70010 (4th floor): Crusher Inspect belts for wear & checking.													
BL 69050 on DCF69040 94th floor): Check belts for wear and noise.													
Inside Sagger Cleaning; (4th floor) Check cleaning process for smooth action and normal timing. 3 to 4 sec per motion.													
Did you find any leaks on equipment, hoppers, conveyors or filters during your walk about?													
If yes: Note what appartus it is, what you did to mitigated the issue, and notify Rob Coffman (Bob Urig as back).													
Operator Initials:	RU	RU	RU	RU	RU	RU	RU	RU	RU	RU	RU	RU	RU

Month: June	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
Year: 2015	Date: 1	Date: 2	Date: 3	Date: 4	Date: 5	Date: 6	Date: 7
	Time:	Time:	Time:	Time:	Time:	Time:	Time:

Equipment P&ID Number and Task	Notes/Observations/Maintenance						
aggr illing/Leveling P61120/SP61130: lean Sensors and lean Reflectors.	SNR	SNR	SNR	SNR	SNR	SNR	SNR
aggr Filling / eveling P61120/SP61130: heck that rollers are irring in sagger illing & Leveling							
aggr Filling / eveling P61120/SP61130: heck cylinders for moothness of stroke n units.							
aggr Leveling P61130: Visually inspect that saggars re being leveled.							
aggr Filling P61120: Ensure illing station is clear f excessive spillage.							
P61112: Make sure ere is air flow to the eal and seal is not aking raw mix.							
P6980: Make sure eal doesn't fall off nd empty drum as needed.							

Entrance Traverser Transfer SP61510: Ensure Traverser Conveyor is conveying properly.									
Bottom Sagger Inspection: SP67220: (2nd floor) Check action and cleanliness of Laser Pad									
H77070 Hopper (3rd floor): Ensure agitator is turning. Look for oil leaks and product leaks									
Inside Sagger Vacuumax Vacuum: ensure BL/M 67355 is running & F67350 has 1.29 nbar of vacuum.									
F67350 Drop Drum: Empty contents into clean labeled NCM Rework drum..									
Did you find any leaks on equipment, hoppers, conveyors or filters during your walk about?									
If yes: Note what apparatus it is, what you did to mitigate the issue, and notify Rob Coffman (Bob Urig as back).									
Operator Initials:	RU	RU	RU	RU	RU	RU	RU	RU	

Month: <u>Jun</u>	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
Year: <u>2015</u>	Date: <u>6/1</u>	Date: <u>6/2</u>	Date: <u>3</u>	Date: <u>4</u>	Date: <u>5</u>	Date: <u>6</u>	Date: <u>7</u>
	Time:	Time:	Time:	Time:	Time:	Time:	Time:

Equipment P&ID Number and Task	Notes/Observations/Maintenance						
Exit Traverser P67020 (1st floor): Ensure traverser is working properly	SNR	SNR	SNR	SNR	SNR	SNR	SNR
Intrance Traverser Transfer SP61510: Ensure Transverser conveyor and positioner is operating properly							
Bagger Dumper P67320 (4th floor): Ensure dumper returns bagger to level position							
VacuMax Vacuum P92010 (1st floor): Check & Replace drop drum as needed.							
P23021: Check that the agitator is turning on Milled Lithium Carb. Hopper on 3rd floor Mez							
P11215411: Check surge air for screw feeder flow reading on Krohne meter (3rd floor behind H21530)							
D22040: Check Reject Drop Drum (2nd floor) Lithium Mill. Note level.							

CV70040: Check rubber boots for wear (2nd floor Mezzanine Vibrating Conveyor)								
D71080: Product Mill drop drum (2nd floor behind product mill)								
CV70040: Verify that the motors are operating properly (2nd floor mezzanine vibrating conveyor)								
Did you find any leaks on equipment, hoppers, conveyors or filters during your walk about?								
If yes: Note what apparatus it is, what you did to mitigated the issue, and notify Rob Coffman (Bob Urig as back).								
Operator Initials:	RU	RU	RU	RU	RU	RU	RU	RU

Wyssmont Drier Baghouse Readings

P018

Week of 6-1-15

Day	Operator	Time	Equipment in Operation y/n	Baghouse Pressure Drop: 1-6 inches H ₂ O	Operating within parameters y/n	ACTIONS TAKEN:
Monday	DS	10AM	N	3.3	Y	
Tuesday	CC	3PM	Y	3.3	Y	
Wednesday	DS	1PM	N	3.9	Y	
Thursday	SS	7am	Y	4.0	Y	
Friday	DS	7AM	Y	4.1	Y	
Saturday	RM	1:00am	Y	4.1	Y	
Sunday	SS	7am	Y	4.0	Y	

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The equipment operating outside of parameters must be repaired as soon as possible.

North-Side Daily Title V Readings Building 10

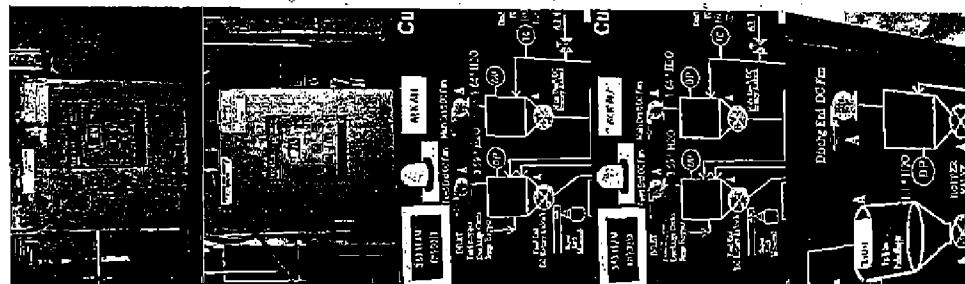
Week of JUNE 1, 2015

Day	Operator	Time	Tunnel Kiln 2	Tunnel Kiln 3	Tunnel Kiln 4	Blender #4	East & West Mills	PK Blender	Spin Flash Dryer	Action Taken
			Building 10C Roof P100	Building 10C Roof P101	Building 10C Roof P005	East Side Building 10A P031	East Side Building 10A P031	Building 10 Roof P069	Building 10 Roof P084	
			Visible Emissions Y/N	Visible Emissions Y/N	Visible Emissions Y/N	Visible Emissions Y/N	Visible Emissions Y/N	Visible Emissions Y/N	Visible Emissions Y/N	
Monday	KWP	10 ⁰⁰	N	N	N	N	N	N	N	
Tuesday	KWP	9 ³⁰	N	N	N	N	N	N	N	
Wednesday	KWP	8 ⁴⁵	N	N	N	N	N	N	N	
Thursday	KWP	10 ⁰⁰	N	N	N	N	N	N	N	
Friday	KWP	11 ³⁰	N	N	N	N	N	N	N	
Saturday	TM	5 ⁰⁰ PM	N	N	N	N	N	N	N	
Sunday	TM	5 ⁰⁰ PM	N	N	N	N	N	N	N	

NOP = Not Operating

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Calciner Baghouse Readings

Week of June 1, 2015

Day	Operator	Time	Equipment Operating Y/N	Baghouse RC #1 Draft Pressure Drop: 1-5 inches H ₂ O	Baghouse RC #1 Feed H. Pressure Drop: 1-5 inches H ₂ O	Baghouse RC #2 Draft Pressure Drop: 1-6 inches H ₂ O	Baghouse RC #2 Feed H. Pressure Drop: 1-6 inches H ₂ O	Baghouse RC #2 Discharge. Pressure Drop: 1-6 inches H ₂ O	Are all baghouses operating within parameters Y/N	ACTIONS TAKEN:
Monday	Butt	7	YES	3.6	1.8	1.01	2.22	3.7	YES	
Tuesday	Butt	7:30	YES	1.8	1.9	1.16	2.55	3.7	YES	
Wednesday	Butt	8	YES	1.9	1.9	1.04	3.40	3.6	YES	
Thursday	Butt	7	YES	1.6	2.0	1.31	4.56	3.6	YES	
Friday	Butt	8	YES	1.8	2.1	1.49	3.71	3.6	YES	
Saturday	Butt	7	YES	1.9	2.2	1.06	2.25	3.6	YES	
Sunday	Butt	7	YES	2.4	2.3	1.24	2.66	3.7	YES	

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The equipment operating outside of parameters must be repaired as soon as possible.

North Side Daily Title V Readings Bldgs. 13, 25, 26

Week of June 1 2015

Day	Operator	Time	Building 13 Tabletting and Briquettor	Building 25 Clean Room	Misc. Mix room equipment	Action Taken
			P127	P098	P050, P051	
			Building 13 Roof	West Side Bldg. 25	West Side Bldg. 26	
			Visible Emissions	Visible Emissions	Visible Emissions	
			Y/N	Y/N	Y/N	
Monday	<i>[Signature]</i>	7	No	No	No	
Tuesday	<i>[Signature]</i>	7:30	No	No	No	
Wednesday	<i>[Signature]</i>	8	No	No	No	
Thursday	<i>[Signature]</i>	7	No	No	No	
Friday	<i>[Signature]</i>	8	No	No	No	
Saturday	<i>[Signature]</i>	7	No	No	No	
Sunday	<i>[Signature]</i>	7	No	No	No	

NOP = Not Operating

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The equipment operating outside of parameters must be repaired as soon as possible.

Ammonia Scrubber Readings P070

Week of 6-1-2015

Day	Operator	Time	Equipment Operating y/n	Recycle Flow Rate: >25gpm	Scrubber Pressure Drop: >1"	Operating within parameters y/n	ACTIONS TAKEN:
Monday	DZ	1:00	Y	34.678	1.51	Y	
Tuesday	CC	9:15pm	N	34.53	1.69	Y	
Wednesday	DS	2pm	N	34.17	1.54	Y	
Thursday	SS	10 ⁰⁰ Am	N	34.69	1.87	Y	
Friday	DS	8 AM	N	34.70	1.68	Y	
Saturday	DS	10 AM	Y	34.91	1.54	Y	
Sunday	DS	7 AM	N	34.32	1.51	Y	

Nitric Acid Scrubber Readings P070

Day	Operator	Time	Equipment Operating y/n	Recycle Flow Rate: >25gpm	Scrubber Pressure Drop: >1"	Operating within parameters y/n	ACTIONS TAKEN:
Monday	DZ	1:00	Y	26.2	10.3	Y	
Tuesday	CC	9:15pm	N	26.3	10.3	Y	
Wednesday	DS	2pm	N	26.3	10.3	Y	
Thursday	SS	10 Am	Y	26.4	10.3	Y	
Friday	DS	8 AM	N	26.7	10.3	Y	
Saturday	DS	10 AM	Y	26.5	10.3	Y	
Sunday	DS	7 AM	N	26.5	10.3	Y	

Any condition outside of the prescribed parameters need to be reported via voice mail to Tim Anglin ext. 2568, with an email followup to Group Leaders, and Superintendent ASAP ***
The equipment operating outside of parameters must be repaired as soon as possible.

Month: <u>June</u>	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
Year: <u>2015</u>	Date: <u>8</u>	Date: <u>9</u>	Date: <u>10</u>	Date: <u>11</u>	Date: <u>12</u>	Date: <u>13</u>	Date: <u>14</u>
	Time:	Time:	Time:	Time:	Time:	Time:	Time:
<u>Equipment P&ID</u> <u>Number and Task</u>	<u>Notes/Observations/Maintenance</u>						
CV61211-8: Unfired Sagger Stock Conveyor - Check chain for smooth action & irregularities	SIVR	SNR	SNR	SNR	SNR	SNR	SNR
CV61211-8: Inspect below rollers for sagger wear particles (section between Filler and Slitter)							
SP61310: Make sure Slitter Knives are making adequate slits and smooth action.							
K64010: Visually inspect empty saggars for fine surface cracks and spalling.							
Littleford Mixer (2nd floor), Check purge air on Meko Shaft Seals is set at Drive & Stub = 10 psi							
Littleford Mixer (2nd floor), Check for material leaks.							
Empty Sagger Discharge Conveyor; 2nd floor; Check Vestibule for discharge sagger. Inspect and note							

Full Sagger Discharge Conveyor (2nd floor); Check Vestibule for discharged sagger.							
Dosing (3rd floor): Lithium and Precursor Dosing for leaks and seal wear/fatigue.							
G70010 (4th floor): Crusher Inspect belts for wear & checking.							
BL 69050 on DCF69040 94th floor); Check belts for wear and noise.							
Inside Sagger Cleaning; (4th floor) Check cleaning process for smooth action and normal timing. 3 to4 sec per motion.							
Did you find any leaks on equipment, hoppers, conveyors or filters during your walk about?							
If yes: Note what appartus it is, what you did to mitigated the issue, and notify Rob Coffman (Bob Urigh as back).	✓						
Operator Initials:	RU	RU	RU	RU	RU	RU	RU

Equipment P&ID Number and Task	Notes/Observations/Maintenance						
Sagger Filling/Leveling SP61120/SP61130: Clean Sensors and Clean Reflectors.	SNR	SNR	SNR	SNR	SNR	SNR	SNR
Sagger Filling / Leveling SP61120/SP61130: Check that rollers are turning in sagger Filling & Leveling							
Sagger Filling / Leveling SP61120/SP61130: Check cylinders for smoothness of stroke on units.							
Sagger Leveling SP61130: Visually inspect that saggars are being leveled.							
Sagger Filling SP61120: Ensure filling station is clear of excessive spillage.							
SF61112: Make sure there is air flow to the seal and seal is not leaking raw mix.							
D6980: Make sure seal doesn't fall off and empty drum as needed.							

Entrance Traverser Transfer 630 & 640 RHK: Ensure Transverser Conveyor is conveying properly.							
Bottom Sagger Inspection: SP67220: (2nd floor) Check action and cleanliness of Laser Pad							
H77070 Hopper (3rd floor): Ensure agitator is turning. Look for oil leaks and product leaks							
Inside Sagger Vacuumax Vacuum: ensure BL/M 67355 is running & F67350 has 1.29 nbar of vacuum.							
F67350 Drop Drum: Empty contents into clean labeled NCM Rework drum..							

Did you find any leaks on equipment, hoppers, conveyors or filters during your walk about?							
If yes: Note what appartus it is, what you did to mitigated the issue, and notify Rob Coffman (Bob Urig as back).							
Operator Initials:	RU	RU	RU	RU	RU	RU	RU

Month: <u>June</u>	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
Year: <u>2015</u>	Date: <u>8</u>	Date: <u>9</u>	Date: <u>10</u>	Date: <u>11</u>	Date: <u>12</u>	Date: <u>20/3</u>	Date: <u>27/4</u>
	Time:	Time:	Time:	Time:	Time:	Time:	Time:

Equipment P&ID Number and Task	Notes/Observations/Maintenance						
Exit Traversers 630 & 640 RHK(1st Floor): Ensure Traverser is working properly	SNR	SNR	SNR	SNR	SNR	SNR	SNR
Entrance Traverser Transfer 630 & 640 RHK: Ensure Traverser Conveyor and Positioner is							
Sagger Dumper SP67320 (4th Floor): Ensure dumper returns sagger to level position.							
Vacuumax Vacuum F92010 (1st floor): Check & Replace drop drum as needed.							
X23021: Check that the agitator is turning on Milled Lithium Carb. Hopper on 3rd Floor Mez							
FI11215411: Check purge air for screw feeder flow reading on Krohne meter (3rd floor behind H21530)							
D22040: Check Reject Drop Drum (2nd floor) Lithium Mill. Note level.							

CV70040: Check rubber boots for wear (2nd floor Mezzanine Vibrating Conveyor)							
D71080: Product Mill drop drum (2nd floor behind product mill)							
CV70040: Verify that the motors are operating properly (2nd floor mezzanine vibrating conveyor)							
Did you find any leaks on equipment, hoppers, conveyors or filters during your walk about?							
If yes: Note what apparatus it is, what you did to mitigate the issue, and notify Rob Coffman (Bob Urig as back).							
Operator Initials:	Ru	Ru	Ru	Ru	Ru	Ru	Ru

TITLE V READINGS

SHIFT TRI-MER / VIRON SCRUBBER READINGS

Week of: 6/15/2015

878
6/22

Week of: 6/15/2015

82
6/22

				Viron PH		Tri-mer PH			Trimer Pressure Drop			Trimer Flow Rates			Check (X) Calciners					RC #1	RC #2	RC #3	RC #4	RC #5	Comments	
				Viron #2 Range (6-11)	Viron #3 Range (6-11)	Tank 1 Range (10-13)	Tank 2 Range (10-13)	Tank 3 Range (10-13)	Stage1 Range 0"-1.5"	Stage 2 Range 1"-4"	Stage 3 Range 3"-6"	Stage 1 Range 50 MIN	Stage 2 Range 50 MIN	Stage 3 Range 50 MIN	Routed to Trimer											
															1	2	3	4	5							
	Shift	Oper	Time																							
Monday 6/15/2015	11p-7a	OKC	12Am	8.2	7.7	10.19	11.33	10.84	.73	1.31	3.02	111	104	93												
	7a-3p	SS	7:50	8.0	7.9	10.19	11.25	10.43	1.3	1.93	3.27	109	104	93												
	3p-11p	SH	7P.M	8.2	7.7	10.1	11.4	10.4	.4	1.8	3.2	100	100	93												
Tuesday 6/16/2015	11p-7a	OKC	4Am	8.2	7.7	10.64	11.29	10.96	.73	1.5	3	110	104	93												
	7a-3p	S.S.	9Am	8.8	7.4	10.5	11.3	10.4	.69	1.9	3	110	104	93												
	3p-11p	BG	10	NOP	8.1	10.3	11.4	11	.6	1.8	3	110	104	93												
Wednesday 6/17/2015	11p-7a	OKC	3Am	NOP	8.1	10.3	11.42	11.05	.74	1.03	3.01	110	104	93												
	7a-3p	SHILL	10AM	8.1	8.0	10.4	11.4	10.9	.2	1.2	3.4	110	104	93												
	3p-11p	SH	7P.M	N.O.P.	N.O.P.	11.3	11.9	10.7	.6	1.5	3.6	100	100	93	X											
Thursday 6/18/2015	11p-7a	OKC	12Am	8.2	8.1	10.45	11.8	10.78	.53	1.25	3.23	110	104	93	X											
	7a-3p	SHILL	11AM	8.2	8.1	10.2	11.2	11.8	.70	1.4	3.3	109	103	92												
	3p-11p	S.S.	5PM	8.6	7.9	N.O.P.																				
Friday 6/19/2015	11p-7a	OKC	3Am	8.3	8.5	10.17	12.33	11.06	.67	1.32	3.14	109	104	93	X											
	7a-3p	SHILL	10AM	8.3	7.4	10.6	12.4	11.3	.6	1.3	3.1	109	103	92	X											
	3p-11p	S.S.	5PM	8.2	7.9	10.1	11.5	10.9	.6	1.8	3.4	107	104	93	X											
Saturday 6/20/2015	11p-7a	BG	3	8.3	7.2	10.7	11.6	10.6	.3	1.2	3	109	103	93	X											
	7a-3p	SHILL	10AM	8.4	10.9	16.1	12.1	11.2	.75	1.3	3.2	109	103	92	X											
	3p-11p	S.S.	5PM	8.2	10.8	10.5	11.2	10.9	.5	1.9	3.4	109	104	93	X											
Sunday 6/21/2015	11p-7a	BG	4AM	7.4	8.6	10.8	11.4	11.3	.2	1.5	3	109	103	93	X											
	7a-3p	SHILL	1PM	8.3	7.7	10.4	11.7	10.9	.4	1.5	3	110	104	93	X											
	3p-11p	S.S.	3PM	8.6	7.4	10.1	11.6	10.7	.27	1.42	2.83	110	104	92	X											

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All Equipment operation outside of parameters must be repaired as soon as possible
Mark section NOP if equipment is Not Operating

TITLE V READINGS

P010

P102

P103

P009

P080

[illegible]

TITLE V READINGS

SOUTH SIDE DAILY TITLE V READING BLDG.16

Week of: 6/15/2015

17

	Oper	Time	RC #4 (P009) Building 16		Viron #2 (P086) Building 16		Viron #3 (P086) Building 16		National Dryer (P106) Building 16		CTO Stack (P102 & P103)	RC # 5 (P080)
			Baghouse 4A - DP 0.3"-4.5" H2O	Baghouse 4B - DP 0.3"-4.5" H2O	Scrubber DP >1" H2O	Scrubber Water Flow > 2 GPM	Scrubber DP >1" H2O	Scrubber Water Flow > 2 GPM	Visable Stack Emmisions	Baghouse DP 1"-4" H2O	Visable Stack Emmisions	Visable Stack Emmisions
									Y/N		Y/N	Y/N
Monday	OK	12AM	1.3	2.4	2.5	2	3.2	2	NOP	NOP	NOP	NOP
Tuesday	OK	4AM	1.4	2.4	2.6	2	2.8	2	NOP	NOP	NOP	NOP
Wednesday	OK	3AM	1.4	2.4	NOP	NOP	2.6	2	NOP	NOP	NOP	NOP
Thursday	OK	12AM	1.4	2.2	2.2	2	2.6	2	NOP	NOP	NOP	NO
Friday	OK	3AM	1.5	2.4	1.5	2	2.6	2	NOP	NOP	NOP	NO
Saturday	BG	3AM	2.1	2.8	2.2	2	2.5	2	NOP	NOP	NO	NO
Sunday	BG	4AM	NOP	NOP	2.3	2	2.6	2	NOP	NOP	NO	NO

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 Mark section NOP if equipment is Not Operating

TITLE V READINGS

SOUTH SIDE DAILY TITLE V READING BLDG. 31

Week of: 6/15/2015

138

	Oper	Time	F2 Scrubber (P024 & P026)	F1 Scrubber (P010 & P028)	Tri-mer Stack (P010 - P026 - P080)	Roof Dust Collectors (P026 - P028 - P110)	Action Taken
			Bldg 31 Roof Visible Emissions Y/N	Bldg 31 Roof Visible Emissions Y/N	Bldg 31 Roof Visible Emissions Y/N	Bldg 31 Roof Visible Emissions Y/N	
Monday	OK	12AM	NO	NO	NO	NO	
Tuesday	OK	4AM	NO	NO	NO	NO	
Wednesday	OK	3AM	NO	NO	NO	NO	
Thursday	OK	12AM	NO	NO	NO	NO	
Friday	OK	3AM	NO	NO	NO	NO	
Saturday	BG	3AM	NO	NO	NO	NO	
Sunday	BG	4AM	NO	NO	NO	NO	

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 All Equipment operation outside of parameters must be repaired as soon as possible
 Mark section NOP if equipment is Not Operating

TITLE V READINGS

SOUTH SIDE DAILY TITLE V READING Bldg. 9 & 27

Week of: 6/15/2015

222
31 225
223
1

178

		PK Blender (P099) Building 9				Horne Tableting (P096) Building 27 Roof	Gravity Bed Sep. (P105) Building 27		Action Taken			
		Baghouse Pressure Drop 3"-5" H2O	Scrubber Pressure Drop >1= 2" H2O	Scrubber Water Flow Y/N	Visible Stack Emissions Y/N	Visible Stack Emissions Y/N	Baghouse DP 1"-4" H2O	Visible Stack Emissions Y/N				
	Oper	Time										
Monday	Jpc	12Am	4.38	2.26	yes	NO	NO	NOP	NOP			
Tuesday	Jpc	4Am	NOP	2.20	yes	NO	NO	NOP	NOP			
Wednesday	Jpc	3Am	NOP	2.2	yes	NO	NO	NOP	NOP			
Thursday	Jpc	12Am	NOP	2.2	yes	NO	NO	NOP	NOP			
Friday	Jpc	3Am	NOP	NOP	NOP	NOP	NO	NOP	NOP			
Saturday	BG	3Am	NOP	NOP	NOP	NOP	NO	NOP	NOP			
Sunday	BG	4Am	NOP	NOP	NOP	NOP	NO	NOP	NOP			

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Mark section NOP if equipment is Not Operating

North Side Daily Title V Readings Building 10

Week of JUNE 15, 2015

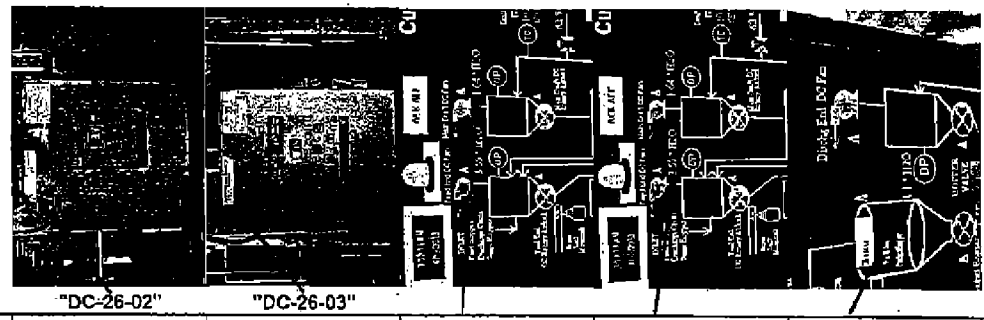
Day	Operator	Time	Tunnel Kiln 2	Tunnel Kiln 3	Tunnel Kiln 4	Blender #4	East & West Mills	PK Blender	Spin Flash Dryer	Action Taken
			Building 10C Roof P100	Building 10C Roof P101	Building 10C Roof P005	East Side Building 10A P031	East Side Building 10A P031	Building 10 Roof P069	Building 10 Roof P094	
			Visible Emissions Y/N	Visible Emissions Y/N	Visible Emissions Y/N	Visible Emissions Y/N	Visible Emissions Y/N	Visible Emissions Y/N	Visible Emissions Y/N	
Monday	KWP	10am	N	N	N	N	N	N	N	
Tuesday	KWP	930	N	N	N	N	N	N	N	
Wednesday	KWP	940	N	N	N	N	N	N	N	
Thursday	KWP	830	N	N	N	N	N	N	N	
Friday	KWP	815	N	N	N	N	N	N	N	
Saturday	mbexton	820am	N	N	N	N	N	N	N	
Sunday	KWP	830	N	N	N	N	N	N	N	

NOP = Not Operating

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The equipment operating outside of parameters must be repaired as soon as possible.

Calcliner Baghouse Readings

Week of 6.15.15



Day	Operator	Time	Equipment Operating Y/N	Baghouse RC #1 Draft Pressure Drop: 1-5 inches H ₂ O	Baghouse RC #1 Feed H. Pressure Drop: 1-5 inches H ₂ O	Baghouse RC #2 Draft Pressure Drop: 1-6 inches H ₂ O	Baghouse RC #2 Feed H. Pressure Drop: 1-6 inches H ₂ O	Baghouse RC #2 Discharge. Pressure Drop: 1-6 inches H ₂ O	Are all baghouses operating within parameters Y/N	ACTIONS TAKEN:
Monday	Butt	7	YES	1.3	2.2	1.40	1.95	3.5	YES	
Tuesday	Butt	8	YES	2.1	1.0	1.55	3.25	3.6	YES	
Wednesday	Butt	7	YES	2.2	1.3	1.48	2.71	3.7	YES	
Thursday	Butt	7	YES	1.9	1.0	1.71	3.49	3.5	YES	
Friday	W	9	YES	2.2	2.0	1.32	3.67	3.5	YES	
Saturday	M	7	YES	2.5	2.2	1.50	3.87	2.5	YES	
Sunday	Butt	7	YES	1.5	2.1	1.56	3.61	3.5	YES	

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The equipment operating outside of parameters must be repaired as soon as possible.

North Side Daily Title V Readings Bldgs. 13, 25, 26

Week of 6-15-15

Day	Operator	Time	Building 13 Tabletting and Briquettor	Building 25 Clean Room	Misc. Mix room equipment	Action Taken
			P127	P098	P050, P051	
			Building 13 Roof	West Side Bldg. 25	West Side Bldg. 26	
			Visible Emissions	Visible Emissions	Visible Emissions	
			Y/N	Y/N	Y/N	
Monday	<i>[Signature]</i>	7	NO	NO	NO	
Tuesday	<i>[Signature]</i>	8	NO	NO	NO	
Wednesday	<i>[Signature]</i>	7	NO	NO	NO	
Thursday	<i>[Signature]</i>	7	NO	NO	NO	
Friday	<i>[Signature]</i>	9	NO	NOP	NOP	
Saturday	<i>[Signature]</i>	7	NO	NOP	NOP	
Sunday	<i>[Signature]</i>	7	NO	NO	NO	

NOP = Not Operating

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The equipment operating outside of parameters must be repaired as soon as possible.**

Wyssmont Drier Baghouse Readings

P018

Week of _____

Day	Operator	Time	Equipment in Operation y/n	Baghouse Pressure Drop: 1-6 inches H ₂ O	Operating within parameters y/n	ACTIONS TAKEN:
Monday						
Tuesday						
Wednesday						
Thursday						
Friday						
Saturday						
Sunday						

Any condition outside of the prescribed parameters need to be reported via voice mail to Tim Anglin ext. 2568, with an email followup to Group Leaders, and Superintendent ASAP ***
The equipment operating outside of parameters must be repaired as soon as possible.

Ammonia Scrubber Readings P070

Week of 6-15-15

Day	Operator	Time	Equipment Operating y/n	Recycle Flow Rate: >25gpm	Scrubber Pressure Drop: >1"	Operating within parameters y/n	ACTIONS TAKEN:
Monday	CC	6:50AM	Y	34.36	1.79	Y	
Tuesday	CC	10:15AM	N	34.39	1.17	Y	
Wednesday	CC	11:30AM	N	34.28	1.70	Y	
Thursday			NOP				
Friday							
Saturday							
Sunday							

Nitric Acid Scrubber Readings P070

Day	Operator	Time	Equipment Operating y/n	Recycle Flow Rate: >25gpm	Scrubber Pressure Drop: >1"	Operating within parameters y/n	ACTIONS TAKEN:
Monday	CC	6:50AM	Y	27.0	10.3	Y	
Tuesday	CC	10:15AM	N	26.8	10.3	Y	
Wednesday	CC	11:30AM	N	26.2	10.3	Y	
Thursday			NOP				
Friday							
Saturday							
Sunday							

Any condition outside of the prescribed parameters need to be reported via voice mail to Tim Anglin ext. 2568, with an email followup to Group Leaders, and Superintendent ASAP ***
The equipment operating outside of parameters must be repaired as soon as possible.

Month: <i>June</i>	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
Year: <i>2015</i>	Date: <i>15</i>	Date: <i>16</i>	Date: <i>17</i>	Date: <i>18</i>	Date: <i>19</i>	Date: <i>20</i>	Date: <i>21</i>
	Time:	Time:	Time:	Time:	Time:	Time:	Time:

Equipment P&ID Number and Task	Notes/Observations/Maintenance						
Sagger Filling/Leveling SP61120/SP61130: Clean Sensors and Clean Reflectors.	SNR	SNR	SNR	SNR	SNR	SNR	SNR
Sagger Filling / Leveling SP61120/SP61130: Check that rollers are turning in sagger Filling & Leveling							
Sagger Filling / Leveling SP61120/SP61130: Check cylinders for smoothness of stroke on units.							
Sagger Leveling SP61130: Visually inspect that saggars are being leveled.							
Sagger Filling SP61120: Ensure filling station is clear of excessive spillage.							
SF61112: Make sure there is air flow to the seal and seal is not leaking raw mix.							
D6980: Make sure seal doesn't fall off and empty drum as needed.							

Entrance Traverser
Transfer 630 & 640
RHK: Ensure
Transverser
Conveyor is
conveying properly.

Bottom Sagger

Inspection:

SP67220: (2nd floor)
Check action and
cleanliness of Laser
Pad

H77070 Hopper (3rd
floor): Ensure
agitator is turning.
Look for oil leaks and
product leaks

Inside Sagger

Vacuamax Vacuum:
ensure BL/M 67355
is running & F67350
has 1.29 nbar of
vacuum.

F67350 Drop Drum:
Empty contents into
clean labeled NCM
Rework drum..

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Did you find any
leaks on equipment,
hoppers, conveyors
or filters during
your walk about?

If yes: Note what
appartus it is, what
you did to mitigated
the issue, and
notify Rob Coffman
(Bob Urig as back).

Operator Initials:

N	N	N	N	N	N	N	N
/	/	/	/	/	/	/	/
RU	RU	RU	RU	RU	RU	RU	RU

Month: <u>June</u>	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
Year: <u>2015</u>	Date: <u>15</u>	Date: <u>16</u>	Date: <u>17</u>	Date: <u>18</u>	Date: <u>19</u>	Date: <u>20</u>	Date: <u>21</u>
	Time:	Time:	Time:	Time:	Time:	Time:	Time:

Equipment P&ID Number and Task	Notes/Observations/Maintenance						
Exit Traversers 630 & 640 RHK(1st Floor): Ensure Traverser is working properly	SNR	SNR	SNR	SNR	SNR	SNR	SNR
Entrance Traverser Transfer 630 & 640 RHK: Ensure Traverser Conveyor and Positioner is							
Sagger Dumper SP67320 (4th Floor): Ensure dumper returns sagger to level position.							
Vacuamax Vacuum F92010 (1st floor): Check & Replace drop drum as needed.							
X23021: Check that the agitator is turning on Milled Lithium Carb. Hopper on 3rd Floor Mez							
F111215411: Check purge air for screw feeder flow reading on Krohne meter (3rd floor behind H21530)							
D22040: Check Reject Drop Drum (2nd floor) Lithium Mill. Note level.							

CV70040: Check rubber boots for wear (2nd floor Mezzanine Vibrating Conveyor)							
D71080: Product Mill drop drum (2nd floor behind product mill)							
CV70040: Verify that the motors are operating properly (2nd floor mezzanine vibrating conveyor)							
Did you find any leaks on equipment, hoppers, conveyors or filters during your walk about?							
If yes: Note what apparatus it is, what you did to mitigate the issue, and notify Rob Coffman (Bob Urig as back).							
Operator Initials:	RU	RU	RU	RU	RU	RU	RU

Month:	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
Year:	Date: 15	Date: 16	Date: 17	Date: 18	Date: 19	Date: 20	Date: 21
	Time:	Time:	Time:	Time:	Time:	Time:	Time:
Equipment P&ID Number and Task	Notes/Observations/Maintenance						
CV61211-8: Unfired Sagger Stock Conveyor - Check chain for smooth action & irregularities	SNR	SNR	SNR	SNR	SNR	SNR	SNR
CV61211-8: Inspect below rollers for sagger wear particles (section between Filler and Slitter)							
SP61310: Make sure Slitter Knives are making adequate slits and smooth action.							
K64010: Visually inspect empty sagers for fine surface cracks and spalling.							
Littleford Mixer (2nd floor), Check purge air on Meko Shaft Seals is set at Drive & Stub = 10 psi							
Littleford Mixer (2nd floor), Check for material leaks.							
Empty Sagger Discharge Conveyor; 2nd floor; Check Vesibule for discharge sagger. Inspect and note							

Full Sagger Discharge Conveyor (2nd floor); Check Vestibule for discharged sagger.							
Dosing (3rd floor): Lithium and Precursor Dosing for leaks and seal wear/fatigue.							
G70010 (4th floor): Crusher Inspect belts for wear & checking.							
BL 69050 on DCF69040 94th floor): Check belts for wear and noise.							
Inside Sagger Cleaning; (4th floor) Check cleaning process for smooth action and normal timing. 3 to 4 sec per motion.							
Did you find any leaks on equipment, hoppers, conveyors or filters during your walk about?							
If yes: Note what apparatus it is, what you did to mitigate the issue, and notify Rob Coffman (Bob Urig as back).							
Operator Initials:	RU	RU	RU	RU	RU	RU	RU

TITLE V READINGS

SHIFT TRI-MER / VIRON SCRUBBER READINGS

Week of: 6/22/2015

Week of: 6/22/2015					Viron PH		Tri-mer PH			Trimer Pressure Drop			Trimer Flow Rates			Check (X) Calciners					RC #1	P010							
					Viron #2 Range (6-11)	Viron #3 Range (6-11)	Tank 1 Range (10-13)	Tank 2 Range (10-13)	Tank 3 Range (10-13)	Stage1 Range 0"-1.5"	Stage 2 Range 1"-4"	Stage 3 Range 3"-6"	Stage 1 Range 50 MIN	Stage 2 Range 50 MIN	Stage 3 Range 50 MIN	Routed to Trimer					RC #2	P102							
																				Routed to Trimer					RC #3	P103			
																									RC #4	P009			
																									RC #5	P080			
																									Comments/ Problems				
										</																			

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Mark section NOP if equipment is Not Operating

TITLE V READINGS

SOUTH SIDE DAILY TITLE V READING BLDG.16

Week of: 6/22/2015

			RC #4 (P009) Building 16		Viron #2 (P086) Building 16		Viron #3 (P086) Building 16		National Dryer (P106) Building 16		CTO Stack (P102 & P103)	RC # 5 (P080)
			Baghouse 4A - DP 0.3"-4.5" H2O	Baghouse 4B - DP 0.3"-4.5" H2O	Scrubber DP >1" H2O	Scrubber Water Flow > 2 GPM	Scrubber DP >1" H2O	Scrubber Water Flow > 2 GPM	Visable Stack Emmisions	Baghouse DP 1"-4" H2O	Visable Stack Emmisions	Visable Stack Emmisions
	Oper	Time							Y/N		Y/N	Y/N
Monday	BG	5AM	NOP	NOP	3.1	2	3.3	2	NO	NOP	NO	NO
Tuesday	BG	1AM	NOP	NOP	2.2	2	3.2	2	NO	NOP	NO	NO
Wednesday	BG	2AM	NOP	NOP	NOP	NOP	NOP	NOP	NO	NOP	NO	NO
Thursday	BG	2AM	NOP	NOP	NOP	NOP	NOP	NOP	NO	NOP	NO	NO
Friday	OK	4AM	NOP	NOP	NOP	NOP	NOP	NOP	NO	NOP	NO	NO
Saturday	SAns	1AM	2.12	2.37	NOP	NOP	NOP	NOP	NO	3.4	NO	NO
Sunday	SAns	1AM	1.89	1.77	NOP	NOP	NOP	NOP	NO	3.9	NO	NO

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TITLE V READINGS

SOUTH SIDE DAILY TITLE V READING BLDG. 31

Week of: 6/22/2015

			F2 Scrubber (P024 & P026)	F1 Scrubber (P010 & P028)	Tri-mer Stack (P010 - P026 - P080)	Roof Dust Collectors (P026 - P028 - P110)	Action Taken
			Bldg 31 Roof Visible Emissions Y/N	Bldg 31 Roof Visible Emissions Y/N	Bldg 31 Roof Visible Emissions Y/N	Bldg 31 Roof Visible Emissions Y/N	
	Oper	Time					
Monday	BG	5AM	NO	NO	NO	NO	
Tuesday	BG	1AM	NO	NO	NO	NO	
Wednesday	BG	2AM	NO	NO	NO	NO	
Thursday	BG	2AM	NO	NO	NO	NO	
Friday	OK	4AM	NO	NO	NO	NO	
Saturday	S.S.	1AM	NO	NO	NO	NO	
Sunday	S.S.	1AM	NO	NO	NO	NO	

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TITLE V READINGS

SOUTH SIDE DAILY TITLE V READING Bldg. 9 & 27

Week of: 6/22/2015

			PK Blender (P099) Building 9				Horne Tableting (P096) Building 27 Roof	Gravity Bed Sep. (P105) Building 27		Action Taken		
			Baghouse Pressure Drop 3"-5" H2O	Scrubber Pressure Drop >= 2" H2O	Scrubber Water Flow Y/N	Visible Stack Emissions Y/N	Visible Stack Emissions Y/N	Baghouse DP 1"-4" H2O	Visible Stack Emissions Y/N			
	Oper	Time										
Monday	BG	5AM	NOP	NOP	NO	NO	NO	NOP	NOP			
Tuesday	BG	1AM	NOP	NOP	NO	NO	NO	NOP	NOP			
Wednesday	BG	2AM	NOP	NOP	NO	NO	NO	NOP	NO			
Thursday	BG	2AM	NOP	NOP	NO	NO	NO	NOP	NO			
Friday	Q	4AM	NOP	NOP	NO	NO	NO	NOP	NO			
Saturday	SS	1AM	NOP	NOP	NO	NO	NO	NOP	NO			
Sunday	S.S.	1AM	NOP	NOP	NO	NO	NO	NOP	NO			

Any condition outside of the prescribed parameters needs to be reported via voice mail to
Ext. 2568 with an email followup to Tim Anglin, Group Leaders, and Superintendents ASAP ***
All Equipment operation outside of parameters must be repaired as soon as possible
Mark section NOP if equipment is Not Operating

North Side Daily Title V Readings Building 10

Week of JUNE 22, 2015

Day	Operator	Time	Tunnel Kln 2	Tunnel Kln 3	Tunnel Kln 4	Blender #4	East & West Mills	PK Blender	Spin Flash Dryer	Action Taken
			Building 10C Roof	Building 10C Roof	Building 10C Roof	East Side Building 10A	East Side Building 10A	Building 10 Roof	Building 10 Roof	
			P100	P101	P005	P031	P031	P069	P094	
			Visible Emissions	Visible Emissions	Visible Emissions	Visible Emissions	Visible Emissions	Visible Emissions	Visible Emissions	
			Y/N	Y/N	Y/N	Y/N	Y/N	Y/N	Y/N	
Monday	KWP	9 ³⁰	N	N	N	N	N	N	N	
Tuesday	KWP	10 ³⁰	N	N	N	N	N	N	N	
Wednesday	KWP	11 ⁰⁰	N	N	N	N	N	N	N	
Thursday	KWP	8 ³⁰	N	N	N	N	N	N	N	
Friday	KWP	10 ⁰⁰	N	N	N	N	N	N	N	
Saturday	TM	5 ⁰⁰ PM	N	N	N	N	N	N	N	
Sunday	TM	6 ⁰⁰ PM	N	N	N	N	N	N	N	

IOP = Not Operating

Any condition outside of the prescribed parameters need to be reported via voice mail to
 Tim Anglin ext. 2568, with an email followup to Group Leaders, and Superintendent ASAP ***
 The equipment operating outside of parameters must be repaired as soon as possible.

North Side Daily Title V Readings Bldgs. 13, 25, 26

Week of 6-22-15

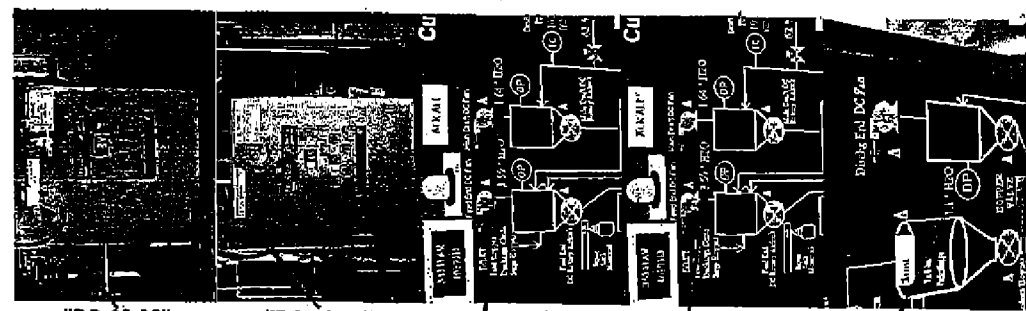
Day	Operator	Time	Building 13 Tabletting and Briquettor	Building 25 Clean Room	Misc. Mix room equipment	Action Taken
			P127	P098	P050, P051	
			Building 13 Roof	West Side Bldg. 25	West Side Bldg. 26	
			Visible Emissions	Visible Emissions	Visible Emissions	
			Y/N	Y/N	Y/N	
Monday	<i>[Signature]</i>	7:30	No	No	No	
Tuesday	<i>[Signature]</i>	7	No	No	No	
Wednesday	<i>[Signature]</i>	7	No	No	No	
Thursday	<i>[Signature]</i>	7	No	No	No	
Friday	<i>[Signature]</i>	7	No	No	No	
Saturday	<i>[Signature]</i>	7:30	No	No	No	
Sunday	<i>[Signature]</i>	7:30	No	No	No	

NOP = Not Operating

Any condition outside of the prescribed parameters need to be reported via voice mail to Tim Anglin ext. 2568, with an email followup to Group Leaders, and Superintendent ASAP ***
The equipment operating outside of parameters must be repaired as soon as possible.

Calciner Baghouse Readings

Week of 6.22.15



Day	Operator	Time	Equipment Operating Y/N	Baghouse RC #1 Draft Pressure Drop: 1-5 inches H ₂ O	Baghouse RC #1 Feed H. Pressure Drop: 1-5 inches H ₂ O	Baghouse RC #2 Draft Pressure Drop: 1-6 inches H ₂ O	Baghouse RC #2 Feed H. Pressure Drop: 1-6 inches H ₂ O	Baghouse RC #2 Discharge. Pressure Drop: 1-6 inches H ₂ O	Are all baghouses operating within parameters Y/N	ACTIONS TAKEN:
Monday	Butt	7:3	YES	1.5	1.1	1.65	2.78	3.6	YES	
Tuesday	Butt	7	YES	1.6	1.0	1.81	2.76	3.5	YES	
Wednesday	Butt	7	YES	2.0	1.0	1.03	4.25	3.6	YES	
Thursday	Butt	7	YES	1.8	1.0	1.26	3.58	3.6	YES	
Friday	Butt	7	YES	1.8	1.0	1.74	4.38	3.7	YES	
Saturday	Butt	7:3	YES	2.5	1.3	1.68	2.56	3.6	YES	
Sunday	Butt	7	YES	2.6	1.0	1.61	3.32	3.7	YES	

Any condition outside of the prescribed parameters need to be reported via voice mail to Tim Anglin ext. 2568, with an email followup to Group Leaders, and Superintendent ASAP ***
The equipment operating outside of parameters must be repaired as soon as possible.

Wyssmont Drier Baghouse Readings

P018

Week of 6-22-15

Day	Operator	Time	Equipment in Operation y/n	Baghouse Pressure Drop: 1-5 inches H ₂ O	Operating within parameters y/n	ACTIONS TAKEN:
Monday						
Tuesday						
Wednesday						
Thursday						
Friday						
Saturday						
Sunday						

Not in operation *SAS*

Any condition outside of the prescribed parameters need to be reported via voice mail to Tim Anglin ext. 2568, with an email followup to Group Leaders, and Superintendent ASAP ***
The equipment operating outside of parameters must be repaired as soon as possible.

Ammonia Scrubber Readings P070

Week of 6-22-2015

Day	Operator	Time	Equipment Operating y/n	Recycle Flow Rate: >25gpm	Scrubber Pressure Drop: >1"	Operating within parameters y/n	ACTIONS TAKEN:
Monday			NOP				
Tuesday			NOP				
Wednesday			NOP				
Thursday			NOP				
Friday			NOP				
Saturday			NOP				
Sunday			NOP				

Nitric Acid Scrubber Readings P070

Day	Operator	Time	Equipment Operating y/n	Recycle Flow Rate: >25gpm	Scrubber Pressure Drop: >1"	Operating within parameters y/n	ACTIONS TAKEN:
Monday			NOP				
Tuesday			NOP				
Wednesday			NOP				
Thursday			NOP				
Friday			NOP				
Saturday			NOP				
Sunday			NOP				

Any condition outside of the prescribed parameters need to be reported via voice mail to Tim Anglin ext. 2568, with an email followup to Group Leaders, and Superintendent ASAP ***
The equipment operating outside of parameters must be repaired as soon as possible.

BASF Elyria
Battery Materials - TITLE V FILTER PRESSURE DIFFERENTIAL READINGS

Month: <u>June</u>		Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
Year: <u>2015</u>		Date: <u>22</u>	Date: <u>23</u>	Date: <u>24</u>	Date: <u>25</u>	Date: <u>26</u>	Date: <u>27</u>	Date: <u>28</u>
		Time:	Time:	Time:	Time:	Time:	Time:	Time:

Equipment P&ID Number and Task	Operating Range (inbar)	Action Limit (inbar)	Differential Pressure Reading (inbar)						
F11910: Check DP on PDI1119140 *	0.1 - 49.8	40.0	SNR	SNR	SNR	SNR	SNR	SNR	SNR
F11920: Check DP on PDI1119241 *	0.1 - 60.0	50.0							
F21050: Check DP on PDI11210540 *	0.1 - 49.8	40.0							
F21535: Check DP on PDI11215341	0.1 - 42.3	32.0							
F23010: Check DP on PDI11230140 *	0.1 - 20.0	15.0							
F23070: Check DP on PDI11230740 *	0.1 - 10.0	7.0							
F31020: Check DP on PDI11310240 *	0.1 - 49.8	40.0							
F31030: Check DP on PDI11310340 *	0.1 - 60.0	50.0							
F32015: Check DP on PDI11320141	0.1 - 42.3	32.0							
F61030: Check DP on PDI11610340	0.1 - 25.0	20.0							
F61090: Check DP on PDI11610940	0.1 - 40.0	30.0							
F67350: Check DP on PDI11673540	0.1 - 49.8	40.0							
F67353: Check DP on PDI11673541	0.1 - 60.0	50.0							
F69040: Check DP on PDI11690440	0.1 - 25.0	20.0							
F69045: Check DP on PDI11690441	0.1 - 40.0	30.0							
F70025: Check DP on PDI11700249	0.1 - 42.3	32.0							
F71030: Check DP on PDI11710340 *	0.1 - 20.0	15.0							
F71040: Check DP on PDI11710440 *	0.1 - 10.0	7.0							
F41020: Check DP on PDI11410240 *	0.1 - 25.0	20.0							
F92010: Check DP on PDI11920140 *	0.1 - 25.0	20.0							
F92020: Check DP on PDI11920141 *	0.1 - 40.0	30.0							

* Does not continuously run - demand based on system need

"SNR" = System Not Running at time of Delta-P inspection.

Operator Signature:		Ru	Ru	Ru	Ru	Ru	Ru	Ru
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BASF Elyria
Battery Materials - TITLE V FILTER PRESSURE DIFFERENTIAL READINGS

Month: <u>June</u>		Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
Year: <u>2015</u>		Date: <u>16</u>	Date: <u>17</u>	Date: <u>18</u>	Date: <u>19</u>	Date: <u>20</u>	Date: <u>21</u>	Date: <u>22</u>
		Time:	Time:	Time:	Time:	Time:	Time:	Time:

Equipment P&ID Number and Task	Operating Range (mbar)	Action Limit (mbar)	Differential Pressure Reading (mbar)						
F11910: Check DP on PDI11119140 *	0.1 - 49.8	40.0	SNR	SNR	SNR	SNR	SNR	SNR	SNR
F11920: Check DP on PDI11119241 *	0.1 - 60.0	50.0							
F21050: Check DP on PDI11210540 *	0.1 - 49.8	40.0							
F21535: Check DP on PDI11215341	0.1 - 42.3	32.0							
F23010: Check DP on PDI11230140 *	0.1 - 20.0	15.0							
F23070: Check DP on PDI11230740 *	0.1 - 10.0	7.0							
F31020: Check DP on PDI11310240 *	0.1 - 49.8	40.0							
F31030: Check DP on PDI11310340 *	0.1 - 60.0	50.0							
F32015: Check DP on PDI11320141	0.1 - 42.3	32.0							
F61030: Check DP on PDI11610340	0.1 - 25.0	20.0							
F61090: Check DP on PDI11610940	0.1 - 40.0	30.0							
F67350: Check DP on PDT11673540	0.1 - 49.8	40.0							
F67353: Check DP on PDT11673541	0.1 - 60.0	50.0							
F69040: Check DP on PDI11690440	0.1 - 25.0	20.0							
F69045: Check DP on PDI11690441	0.1 - 40.0	30.0							
F70025: Check DP on PDI11700249	0.1 - 42.3	32.0							
F71030: Check DP on PDI11710340 *	0.1 - 20.0	15.0							
F71040: Check DP on PDI11710440 *	0.1 - 10.0	7.0							
F41020: Check DP on PDI11410240 *	0.1 - 25.0	20.0							
F92010: Check DP on PDI11920140 *	0.1 - 25.0	20.0							
F92020: Check DP on PDI11920141 *	0.1 - 40.0	30.0							

* Does not continuously run - demand based on system need

"SNR" = System Not Running at time of Delta-P inspection.

Operator Signature:		Ru	Ru	Ru	Ru	Ru	Ru	Ru
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TITLE V READINGS

SHIFT TRI-MER / VIRON SCRUBBER READINGS

Week of: 6/29/2015

				Viron PH		Tri-mer PH			Trimer Pressure Drop			Trimer Flow Rates			Check (X) Calciners Routed to Trimer					RC #1	P010
				Viron #2 Range (6-11)	Viron #3 Range (6-11)	Tank 1 Range (10-13)	Tank 2 Range (10-13)	Tank 3 Range (10-13)	Stage1 Range 0"-1.5"	Stage 2 Range 1"-4"	Stage 3 Range 3"-6"	Stage 1 Range 50 MIN	Stage 2 Range 50 MIN	Stage 3 Range 50 MIN	1	2	3	4	5	RC #2	P102
																				RC #3	P103
																				RC #4	P009
																				RC #5	P080
																				Comments/ Problems	
Shift	Oper	Time																			
Monday 6/22/2015	Night	SAMS	1 AM	NOP	NOP	NOP	-	-	-	-	-	-	-	-							
	Day	me	7 AM	NOP	NOP	NOP	-	-	-	-	-	-	-	-							
	Afternoon	SHILL	9 PM	NOP	7.7	NOP	-	-	-	-	-	-	-	-							
Tuesday 6/23/2015	Night	SAMS	1 AM	NOP	8.1	NOP	-	-	-	-	-	-	-	-							
	Day	me	8 AM	NOP	7.6	NOP	-	-	-	-	-	-	-	-							
	Afternoon	SHILL	9 PM	NOP	7.8	NOP	-	-	-	-	-	-	-	-							
Wednesday 6/24/2015	Night	SAMS	1 AM	NOP	7.4	NOP	-	-	-	-	-	-	-	-							
	Day	MS	2:00	NOP	7.7	NOP	-	-	-	-	-	-	-	-							
	Afternoon	SHILL	6:00	NOP	7.7	NOP	-	-	-	-	-	-	-	-							
Thursday 6/25/2015	Night	GG	11:30	NOP	-	-	-	-	-	-	-	-	-	-							
	Day	GG	11	NOP	8	NOP	-	-	-	-	-	-	-	-							
	Afternoon	me	1 PM	NOP	7.9	NOP	-	-	-	-	-	-	-	-							
Friday 6/26/2015	Night	GG	11 PM	NOP	7.7	NOP	-	-	-	-	-	-	-	-							
	Day	GG	11	NOP	7.8	NOP	-	-	-	-	-	-	-	-							
	Afternoon	me	1 PM	NOP	8.1 (1)	NOP	-	-	-	-	-	-	-	-							
Saturday 6/27/2015	Night	SHILL	12 AM	NOP	8.1	NOP	-	-	-	-	-	-	-	-							
	Day	SH	12:30 PM	NOP	8.0	NOP	-	-	-	-	-	-	-	-							
	Afternoon	me	1 PM	NOP	8.1	NOP	-	-	-	-	-	-	-	-							
Sunday 6/28/2015	Night	SHILL	3 AM	NOP	8.0	NOP	-	-	-	-	-	-	-	-							
	Day	SH	8:00	NOP	NOP	NOP	-	-	-	-	-	-	-	-							
	Afternoon	me	3 PM	NOP	NOP	NOP	-	-	-	-	-	-	-	-							

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All Equipment operation outside of parameters must be repaired as soon as possible
Mark section NOP if equipment is Not Operating

(1) 8.1 data pulled from Ser
LZ 7/17/2015

TITLE V READINGS

SOUTH SIDE DAILY TITLE V READING BLDG.16

Week of: 6/29/2015

	Oper	Time	RC #4 (P009) Building 16		Viron #2 (P086) Building 16		Viron #3 (P086) Building 16		National Dryer (P106) Building 16		CTO Stack (P102 & P103)	RC # 5 (P080)
			Baghouse 4A - DP	Baghouse 4B - DP	Scrubber DP	Scrubber Water Flow	Scrubber DP	Scrubber Water Flow	Visible Stack	Baghouse DP	Visible Stack	Visible Stack
			0.3"-4.5" H2O	0.3"-4.5" H2O	>1" H2O	> 2 GPM	>1" H2O	> 2 GPM	Emmisions	1"-4" H2O	Emmisions	Emmisions
									Y/N		Y/N	Y/N
Monday	SAMS	1 AM	1.96	2.97	NOP	NOP	NOP	NOP	NO	3.9	NO	NO
Tuesday	SAMS	1 AM	2.18	2.76	NOP	NOP	NOP	NOP	NO	3.6	NO	NO
Wednesday	SAMS	1 AM	2.32	2.94	NOP	NOP	NOP	NOP	NO	3.9	NO	NO
Thursday	GG	11:30	2.59	3.01	NOP	NOP	NOP	NOP	NO	2.10	NO	NO
Friday	GG	11 pm	2.66	2.71	NOP	NOP	2.1	2	NO	2.22	NO	NO
Saturday	SHILL	12 AM	1.8	2.2	NOP	NOP	2.6	2	NO	NOP	NO	NO
Sunday	SHILL	3 AM	NOP	NOP	NOP	NOP	4.4	2	NO	NOP	NO	NO

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 Mark section NOP if equipment is Not Operating

TITLE V READINGS

SOUTH SIDE DAILY TITLE V READING BLDG. 31

Week of: 6/27/2015

	Oper	Time	F2 Scrubber (P024 & P026)	F1 Scrubber (P010 & P028)	Tri-mer Stack (P010 - P026 - P080)	Roof Dust Collectors (P026 - P028 - P110)	Action Taken
			Bldg 31 Roof Visible Emissions Y/N	Bldg 31 Roof Visible Emissions Y/N	Bldg 31 Roof Visible Emissions Y/N	Bldg 31 Roof Visible Emissions Y/N	
Monday	SAMS	1 AM	NO	NO	NO	NO	
Tuesday	SAMS	1 AM	NO	NO	NO	NO	
Wednesday	SAMS	1 AM	NO	NO	NO	NO	
Thursday	GG	11:40pm	NO	NO	NOP	NO	
Friday	GG	11pm	NO	NO	NO	NO	
Saturday	SHILL	12 AM	NO	NO	NO	NO	
Sunday	SHILL	3 AM	NO	NO	NO	NO	

Any condition outside of the prescribed parameters needs to be reported via voice mail to Ext. 2568 with an email followup to Tim Anglin, Group Leaders, and Superintendents ASAP ***
 All Equipment operation outside of parameters must be repaired as soon as possible
 Mark section NOP if equipment is Not Operating

TITLE V READINGS

SOUTH SIDE DAILY TITLE V READING Bldg. 9 & 27

Week of: 6/27/2015

	Oper	Time	PK Blender (P099) Building 9				Home Tableting (P096) Building 27 Roof	Gravity Bed Sep. (P105) Building 27		Action Taken		
			Baghouse Pressure Drop 3"-5" H2O	Scrubber Pressure Drop >1= 2" H2O	Scrubber Water Flow Y/N	Visible Stack Emissions Y/N	Visible Stack Emissions Y/N	Baghouse DP 1"-4" H2O	Visible Stack Emissions Y/N			
Monday	SAMS	1 AM	NOP	NOP	NO	NO	NO	NOP	NO			
Tuesday	SAMS	1 AM	NOP	NOP	NO	NO	NO	NOP	NO			
Wednesday	SAMS	1 AM	NOP	NOP	NO	NO	NO	NOP	NO			
Thursday	GL	11:30	NOP	NOP	NOP	NO	NO	NOP	NO			
Friday	GL	11:30	NOP	NOP	NOP	NO	NO	NOP	NO			
Saturday	SHILL	12 AM	NOP	NOP	NOP	NO	NO	NOP	NO			
Sunday	SHILL	12 AM	NOP	NOP	NOP	NO	NO	NOP	NO			

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 Mark section NOP if equipment is Not Operating

			Dust collectors - Return to GL once sheet complete																
			#1	#1	#2	#2	#3	#3	#7	#7	#8	#8	Vertical	Vertical	CTO	CTO	National Dryer	National Dryer	PK Blender
			Pressure drop ("H2O)	Drum Level*	Pressure drop ("H2O)	Drum Level*	Pressure drop ("H2O)	Drum Level*	Pressure drop ("H2O)	Drum Level*	Pressure drop ("H2O)	Drum Level*	Pressure drop ("H2O)	Drum Level*	Pressure drop ("H2O)	Drum Level*	Pressure drop ("H2O)	Drum Level*	Drum Level*
Date	Shift	Operator																	
6/29/2015																			
		Rotolock on?*	Y or N		Y or N		Y or N		Y or N		Y or N		Y or N		Y or N		Y or N		Y or N
6/30/2015																			
		Rotolock on?*	Y or <u>N</u>		Y or <u>N</u>		Y or <u>N</u>		Y or <u>N</u>		Y or <u>N</u>		Y or <u>N</u>		Y or <u>N</u>		<u>Y</u> or N		Y or <u>N</u>
7/1/2015	3-11	SHLL	NOP	3/4	NOP	1/4	2.6	1/4	NOP	1/4	7	1/2	3.5	1/2	NOP	1/2	2.1	3/4	M/T
		Rotolock on?*	Y or N		Y or N		Y or N		Y or N		Y or N		Y or N		Y or N		Y or N		Y or N
7/2/2015																			
		Rotolock on?*	Y or N		Y or N		Y or N		Y or N		Y or N		Y or N		Y or N		Y or N		Y or N
7/3/2015																			
		Rotolock on?*	Y or <u>N</u>		Y or <u>N</u>		<u>Y</u> or N		Y or <u>N</u>		Y or <u>N</u>		Y or <u>N</u>		<u>Y</u> or N		Y or <u>N</u>		Y or <u>N</u>
7/4/2015	11-7	SHLL	NOP	3/4	NOP	1/4	3.0	1/2	NOP	1/4	7	1/2	3.8	3/4	4.9	3/4	2.8	3/4	M/T
		Rotolock on?*	Y or <u>N</u>		Y or <u>N</u>		Y or N		Y or <u>N</u>		Y or <u>N</u>		<u>Y</u> or <u>N</u>		<u>Y</u> or N		<u>Y</u> or N		Y or <u>N</u>
7/5/2015	11-7	SHLL	NOP	3/4	NOP	1/4	3.1	3/4	NOP	1/4	7	1/2	3.6	3/4	4.9	1/4	1.8	3/4	M/T
		Rotolock on?*	Y or N		Y or N		Y or N		Y or N		Y or N		Y or N		Y or N		Y or N		Y or N

If pressure drop across any of the dust collectors increases a large amount or is increasing day after day, this may indicate a problem is present. Alert engineer or group leader

*If drum level has not increased at all since the previous day, alert group leader/leadman to investigate. Change out drums as necessary and label.

**If rotolock is not turning, alert group leader/leadman immediately. Dust collector can fill up and pack if rotolock is not on * CHANGED DRUM

Once per week

			F1/F2 Scrubber Checksheet - Return to GL once sheet complete					
			F1 Demister	F1 Packing	F1 Blower	F2 Demister	F2 Packing	F2 Blower
Date	Shift	Operator	Pressure drop ("H2O)	Pressure drop ("H2O)	Pressure drop ("H2O)	Pressure drop ("H2O)	Pressure drop ("H2O)	Pressure drop ("H2O)
6/15/2015								
6/22/2015								
6/29/2015	3-11	Shaw	2.6	-	15	.01	.20	3.46
7/6/2015								
7/13/2015								
7/20/2015								
7/27/2015								
8/3/2015								
8/10/2015								

If pressure drop across any of the three spots increase a large amount or is increasing week after week, this may indicate a problem is present. Alert engineer

BASF Elyria
Battery Materials - TITLE V FILTER PRESSURE DIFFERENTIAL READINGS

Month: <u>June / July</u>		Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
Year: <u>2015</u>		Date: <u>29</u>	Date: <u>30</u>	Date: <u>1</u>	Date: <u>2</u>	Date: <u>3</u>	Date: <u>4</u>	Date: <u>5</u>
		Time:	Time:	Time:	Time:	Time:	Time:	Time:

Equipment P&ID Number and Task	Operating Range (inbar)	Action Limit (inbar)	Differential Pressure Reading (inbar)						
F11910: Check DP on PDI11119140 *	0.1 - 49.8	40.0	SNR	SNR	SNR	SNR	SNR	SNR	SNR
F11920: Check DP on PDI11119241 *	0.1 - 60.0	50.0							
F21050: Check DP on PDI11210540 *	0.1 - 49.8	40.0							
F21535: Check DP on PDI11215341	0.1 - 42.3	32.0							
F23010: Check DP on PDI11230140 *	0.1 - 20.0	15.0							
F23070: Check DP on PDI11230740 *	0.1 - 10.0	7.0							
F31020: Check DP on PDI11310240 *	0.1 - 49.8	40.0							
F31030: Check DP on PDI11310340 *	0.1 - 60.0	50.0							
F32015: Check DP on PDI11320141	0.1 - 42.3	32.0							
F61030: Check DP on PDI11610340	0.1 - 25.0	20.0							
F61090: Check DP on PDI11610940	0.1 - 40.0	30.0							
F67350: Check DP on PDT11673540	0.1 - 49.8	40.0							
F67353: Check DP on PDT11673541	0.1 - 60.0	50.0							
F69040: Check DP on PDI11690440	0.1 - 25.0	20.0							
F69045: Check DP on PDI11690441	0.1 - 40.0	30.0							
F70025: Check DP on PDI11700249	0.1 - 42.3	32.0							
F71030: Check DP on PDI11710340 *	0.1 - 20.0	15.0							
F71040: Check DP on PDI11710440 *	0.1 - 10.0	7.0							
F41020: Check DP on PDI11410240 *	0.1 - 25.0	20.0							
F92010: Check DP on PDI11920140 *	0.1 - 25.0	20.0							
F92020: Check DP on PDI11920141 *	0.1 - 40.0	30.0							

* Does not continuously run - demand based on system need

"SNR" = System Not Running at time of Delta-P inspection.

Operator Signature:		Ru	Ru	Ru	Ru	Ru	Ru	Ru
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BASF Elyria
Battery Materials - TITLE V FILTER PRESSURE DIFFERENTIAL READINGS

Month: <u>July</u>		Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
Year: <u>2015</u>		Date: <u>6</u>	Date: <u>7</u>	Date: <u>8</u>	Date: <u>9</u>	Date: <u>10</u>	Date: <u>11</u>	Date: <u>12</u>
		Time:	Time:	Time:	Time:	Time:	Time:	Time:

Equipment P&ID Number and Task	Operating Range (mbars)	Action Limit (mbars)	Differential Pressure Reading (mbars)						
			Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
F11910: Check DP on PDI11119140 *	0.1 - 49.8	40.0	SNR	SNR	SNR	SNR	SNR	SNR	SNR
F11920: Check DP on PDI11119241 *	0.1 - 60.0	50.0							
F21050: Check DP on PDI11210540 *	0.1 - 49.8	40.0							
F21535: Check DP on PDI11215341 *	0.1 - 42.3	32.0							
F23010: Check DP on PDI11230140 *	0.1 - 20.0	15.0							
F23070: Check DP on PDI11230740 *	0.1 - 10.0	7.0							
F31020: Check DP on PDI11310240 *	0.1 - 49.8	40.0							
F31030: Check DP on PDI11310340 *	0.1 - 60.0	50.0							
F32015: Check DP on PDI11320141	0.1 - 42.3	32.0							
F61030: Check DP on PDI11610340	0.1 - 25.0	20.0							
F61090: Check DP on PDI11610940	0.1 - 40.0	30.0							
F67350: Check DP on PDI11673540	0.1 - 49.8	40.0							
F67353: Check DP on PDT11673541	0.1 - 60.0	50.0							
F69040: Check DP on PDI11690440	0.1 - 25.0	20.0							
F69045: Check DP on PDI11690441	0.1 - 40.0	30.0							
F70025: Check DP on PDI11700249 *	0.1 - 42.3	32.0							
F71030: Check DP on PDI11710340 *	0.1 - 20.0	15.0							
F71040: Check DP on PDI11710440 *	0.1 - 10.0	7.0							
F41020: Check DP on PDI11410240 *	0.1 - 25.0	20.0							
F92010: Check DP on PDI11920140 *	0.1 - 25.0	20.0							
F92020: Check DP on PDI11920141 *	0.1 - 40.0	30.0							

* Does not continuously run - demand based on system need

"SNR" = System Not Running at time of Delta-P inspection.

Operator Signature:		RN	RN	RN	RN	RN	RN	RN
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Month: <u>June/30</u>	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
Year: <u>2015</u>	Date: <u>30 29</u>	Date: <u>30</u>	Date: <u>1</u>	Date: <u>2</u>	Date: <u>3</u>	Date: <u>4</u>	Date: <u>5</u>
	Time:	Time:	Time:	Time:	Time:	Time:	Time:

Equipment P&ID Number and Task	Notes/Observations/Maintenance						
Exit Traversers 630 & 640 RHK(1st Floor): Ensure Traverser is working properly	SNR	SNR	SNR	SNR	SNR	SNR	SNR
Entrance Traverser Transfer 630 & 640 RHK: Ensure Transverser Conveyor and Positioner is							
Sagger Dumper SP67320 (4th Floor): Ensure dumper returns sagger to level position.							
Vacuamax Vacuum F92010 (1st floor): Check & Replace drop drum as needed.							
X23021: Check that the agitator is turning on Milled Lithium Carb. Hopper on 3rd Floor Mez							
FI11215411: Check purge air for screw feeder flow reading on Krohne meter (3rd floor behind H21530)							
D22040: Sample Drop Drum (2nd floor) Lithium Mill. Remove contents.							

CV70040: Check rubber boots for wear (2nd floor Mezzanine Vibrating Conveyor)								
D71080: Sample Product Mill drop drum (2nd floor behind product mill). Remove contents.								
CV70040: Verify that the motors are operating properly (2nd floor mezzanine vibrating conveyor)								
Did you find any leaks on equipment, hoppers, conveyors or filters during your walk about?								
If yes: Note what apparatus it is, what you did to mitigate the issue, and notify Rob Coffman (Bob Urig as back).								
Operator Initials:	RU	RU	RU	RU	RU	RU	RU	RU

June

Month: <u>July</u>	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
Year: <u>2015</u>	Date: <u>29</u>	Date: <u>30</u>	Date: <u>1</u>	Date: <u>2</u>	Date: <u>3</u>	Date: <u>4</u>	Date: <u>5</u>
	Time:	Time:	Time:	Time:	Time:	Time:	Time:

Equipment P&ID Number and Task	Notes/Observations/Maintenance						
Sagger Filling/Leveling SP61120/SP61130: Clean Sensors and Clean Reflectors.	SNR	SNR	SNR	SNR	SNR	SNR	SNR
Sagger Filling / Leveling SP61120/SP61130: Check that rollers are turning in sagger Filling & Leveling							
Sagger Filling / Leveling SP61120/SP61130: Check cylinders for smoothness of stroke on units.							
Sagger Leveling SP61130: Visually inspect that saggars are being leveled.							
Sagger Filling SP61120: Ensure filling station is clear of excessive spillage.							
SF61112: Make sure there is air flow to the seal and seal is not leaking raw mix.							
D81020: Finished Pkg - Mag. Sep. Drop Drum: Sample drum & Remove contents.							

Entrance Traverser Transfer 630 & 640 RHK: Ensure Traverser Conveyor is conveying properly.							
Bottom Sagger Inspection: SP67220: (2nd floor) Check action and cleanliness of Laser Pad							
H77070 Hopper (3rd floor): Ensure agitator is turning. Look for oil leaks and product leaks							
Inside Sagger Vacuamax Vacuum: ensure BL/M 67355 is running & F67350 has 1.29 nbar of vacuum.							
F67350 Drop Drum: Empty contents into clean labeled NCM Rework drum..							

Did you find any leaks on equipment, hoppers, conveyors or filters during your walk about?							
If yes: Note what appartus it is, what you did to mitigated the issue, and notify Rob Coffman (Bob Urig as back).							
Operator Initials:	RU	RU	RU	RU	RU	RU	RU

Month: <u>June/2015</u>	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
Year: <u>2015</u>	Date: <u>27</u>	Date: <u>30</u>	Date: <u>1</u>	Date: <u>2</u>	Date: <u>3</u>	Date: <u>4</u>	Date: <u>5</u>
	Time:	Time:	Time:	Time:	Time:	Time:	Time:
<u>Equipment P&ID</u> <u>Number and Task</u>	<u>Notes/Observations/Maintenance</u>						
CV61211-8: Unfired Sagger Stock Conveyor; Check chain for smooth action & irregularities	SNR	SNR	SNR	SNR	SNR	SNR	SNR
CV61211-8: Inspect below rollers for sagger wear particles (section between Filler and Slitter)							
SP61310: Make sure Slitter Knives are making adequate slits and smooth action.							
K64010: Visually inspect empty sagers for fine surface cracks and spalling.							
Littleford Mixer (2nd floor), Check purge air on Meko Shaft Seals is set at Drive & Stub = 10 psi							
Littleford Mixer (2nd floor), Check for material leaks.							
Empty Sagger Discharge Conveyor; 2nd floor; Check Vesibule for discharge sagger. Inspect and note							

Full Sagger Discharge Conveyor (2nd floor); Check Vestibule for discharged sagger.								
Dosing (3rd floor): Lithium and Precursor Dosing for leaks and seal wear/fatigue.								
G70010 (4th floor): Crusher Inspect belts for wear & checking.								
BL 69050 on DCF69040 94th floor): Check belts for wear and noise.								
Inside Sagger Cleaning; (4th floor) Check cleaning process for smooth action and normal timing. 3 to 4 sec per motion.								
Did you find any leaks on equipment, hoppers, conveyors or filters during your walk about?								
If yes: Note what apparatus it is, what you did to mitigate the issue, and notify Rob Coffman (Bob Urig as back).								
Operator Initials:	RU	RU	RU	RU	RU	RU	RU	RU

Wyssmont Drier Baghouse Readings

P018

Week of 6-29-2015 CC

Day	Operator	Time	Equipment in Operation y/n	Baghouse Pressure Drop: 1-6 inches H ₂ O	Operating within parameters y/n	ACTIONS TAKEN:
Monday						
Tuesday			NOP			
Wednesday	—				—	
Thursday						
Friday						
Saturday						
Sunday						

***Any condition outside of the prescribed parameters need to be reported via voice mail to Tim Anglin ext. 2568, with an email followup to Group Leaders, and Superintendent ASAP ***
The equipment operating outside of parameters must be repaired as soon as possible.***

Ammonia Scrubber Readings P070

Week of 6-29-15 cc

Day	Operator	Time	Equipment Operating y/n	Recycle Flow Rate: >25gpm	Scrubber Pressure Drop: >1"	Operating within parameters y/n	ACTIONS TAKEN:
Monday							
Tuesday							
Wednesday							
Thursday							
Friday							
Saturday							
Sunday							

NOP

Nitric Acid Scrubber Readings P070

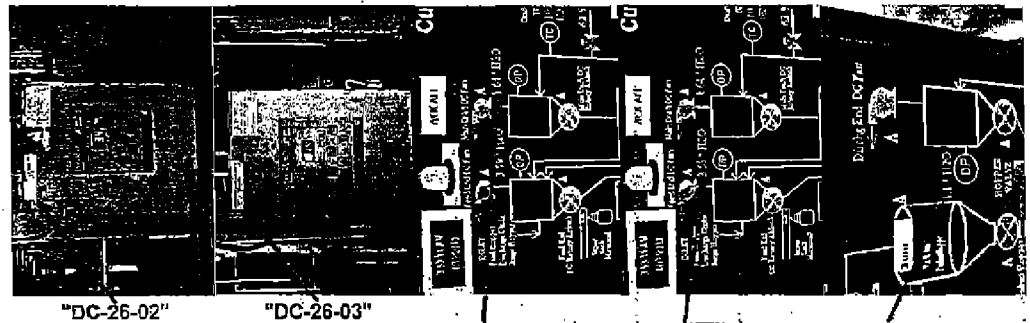
Day	Operator	Time	Equipment Operating y/n	Recycle Flow Rate: >25gpm	Scrubber Pressure Drop: >1"	Operating within parameters y/n	ACTIONS TAKEN:
Monday							
Tuesday							
Wednesday							
Thursday							
Friday							
Saturday							
Sunday							

NOP

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The equipment operating outside of parameters must be repaired as soon as possible.

Calcliner Baghouse Readings

Week of 6-29-15



Day	Operator	Time	Equipment Operating Y/N	Baghouse RC #1 Draft Pressure Drop: 1-5 inches H ₂ O	Baghouse RC #1 Feed H. Pressure Drop: 1-5 inches H ₂ O	Baghouse RC #2 Draft Pressure Drop: 1-6 inches H ₂ O	Baghouse RC #2 Feed H. Pressure Drop: 1-6 inches H ₂ O	Baghouse RC #2 Discharge. Pressure Drop: 1-6 inches H ₂ O	Are all baghouses operating within parameters Y/N	ACTIONS TAKEN:
Monday	LT	7 ³⁰	YES	2.3	1.0	1.83	2.47	3.7	YES	
Tuesday	LT	7	YES	1.9	1.0	1.88	3.93	3.7	YES	
Wednesday	LT	7	NO/YES	NOP	NOP	2.33	3.80	3.7	YES	
Thursday	DL	7	N/A	NOP	NOP	1.58	3.60	3.8	Y	
Friday	DL	7	N/A	NOP	NOP	2.23	3.52	3.8	Y	
Saturday	AS	7 ¹⁵	No	NOP	NOP	3.77	2.29	3.8	yes	
Sunday	AS	7 ⁰⁵	No	NOP	NOP	0.02	0.01	0.0	yes	

NOP *NOP* *NOP*

Any condition outside of the prescribed parameters need to be reported via voice mail to Tim Anglin ext. 2568, with an email followup to Group Leaders, and Superintendent ASAP ***
The equipment operating outside of parameters must be repaired as soon as possible.

North Side Daily Title V Readings Bldgs. 13, 25, 26

Week of 6-29-15

Day	Operator	Time	Building 13 Tabletting and Briquettor	Building 25 Clean Room	Misc. Mix room equipment	Action Taken
			P127	P098	P050, P051	
			Building 13 Roof	West Side Bldg. 25	West Side Bldg. 26	
			Visible Emissions	Visible Emissions	Visible Emissions	
			Y/N	Y/N	Y/N	
Monday	<i>DLH</i>	730	No	No	No	
Tuesday	<i>DLH</i>	7	No	No	No	
Wednesday	<i>DLH</i>	7	No	No	No	
Thursday	<i>DL</i>	7	No	No	No	
Friday	<i>DL</i>	7	N	N	N	
Saturday	<i>AS</i>	715	No	No	No	
Sunday	<i>AS</i>	705	No	No	No	

NOP = Not Operating

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The equipment operating outside of parameters must be repaired as soon as possible.

North Side Daily Title V Readings Building 10

Week of 6-29-15

Day	Operator	Time	Tunnel Kiln 2	Tunnel Kiln 3	Tunnel Kiln 4	Blender #4	East & West Mills	PK Blender	Spin Flash Dryer	Action Taken
			Building 10C Roof	Building 10C Roof	Building 10C Roof	East Side Building 10A	East Side Building 10A	Building 10 Roof	Building 10 Roof	
			P100	P101	P005	P031	P031	P069	P094	
			Visible Emissions	Visible Emissions	Visible Emissions	Visible Emissions	Visible Emissions	Visible Emissions	Visible Emissions	
			Y/N	Y/N	Y/N	Y/N	Y/N	Y/N	Y/N	
Monday	DN	8AM	N	N	N	N	N	N	N	
Tuesday	DN	12 ³⁰	N	N	N	N	N	N	N	
Wednesday	TM	4 ⁰⁰	N	N	N	N	N	N	N	
Thursday	TM	5 ³⁰	N	N	N	N	N	N	N	
Friday	TM	3 ³⁰	N	N	N	N	N	N	N	
Saturday	TM	6 ⁰⁰	N	N	N	N	N	N	N	
Sunday	TM	3 ³⁰	N	N	N	N	N	N	N	

IOP = Not Operating

Any condition outside of the prescribed parameters need to be reported via voice mail to Tim Anglin ext. 2568, with an email followup to Group Leaders, and Superintendent ASAP ***
The equipment operating outside of parameters must be repaired as soon as possible.

